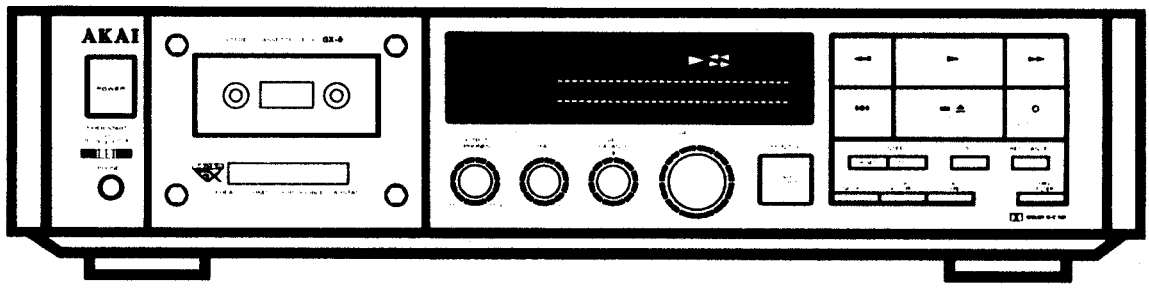
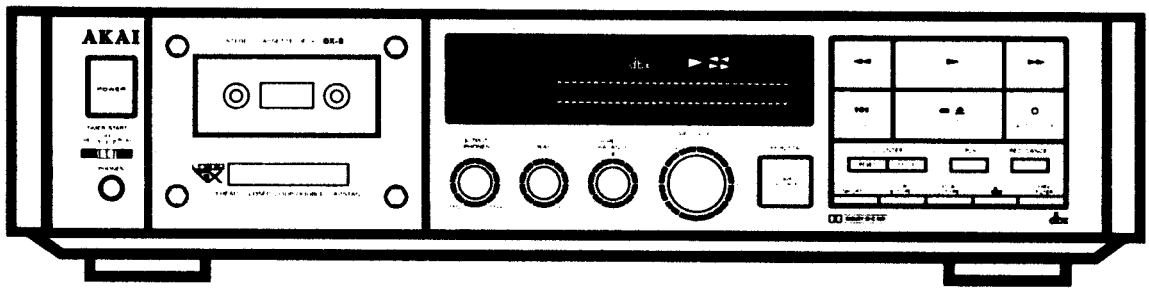
# AKAI SERVICE MANUAL




MODEL GX-6




MODEL GX-8

STEREO CASSETTE DECK

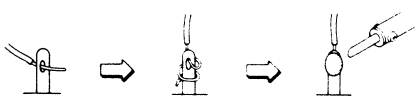
MODEL GX-6

MODEL GX-8

# ★SAFETY INSTRUCTIONS

## *PRECAUTIONS DURING SERVICING*

1. Parts identified by the ⚠ symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locatoins.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

# ★INFORMATION

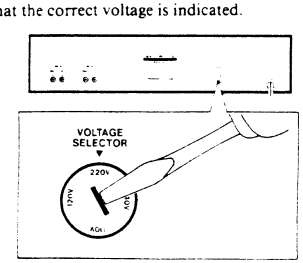
## SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

| Symbols | Principal Destinations |
|---|---|
| [A] | USA |
| [B] | UK |
| [C] | Canada |
| [E] | Europe (except UK) |
| [J] | Japan |
| [S] | Australia |
| [V] | W. Germany only |
| [U] | Universal Area |
| [Y*] | Custom version |

## VOLTAGE CONVERSION ( [U] Model only)

Before connecting the power cord, set the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.






# I. SPECIFICATIONS

| Model | GX-8 | GX-6 |
|---|---|---|
| Track system | 4 track 2 channel stereo | 4 track 2 channel stereo |
| Heads | Super GX head for recording × 1<br>Super GX head for playback × 1<br>Erase head × 1 | Super GX head for recording × 1<br>Super GX head for playback × 1<br>Erase head × 1 |
| Motors | Quartz PLL direct drive motor for capstan drive × 1<br>DC motor for reel drive × 1<br>DC motor for cam and door drive × 1 | Direct drive FG servo motor for capstan drive × 1<br>DC motor for reel drive × 1<br>DC motor for cam and door drive × 1 |
| Wow & flutter | 0.025% WRMS (JIS), 0.04% (DIN) | 0.025% WRMS (JIS), 0.04% (DIN) |
| S/N (METAL) | 60 dB (Measured via tape with 3% THD recording level)<br>Dolby B type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz<br>Dolby C type NR switch ON: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz | 60 dB (Measured via tape with 3% THD recording level)<br>Dolby B type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz<br>Dolby C type NR switch ON: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz |
| Dynamic range | 110 dB (dbx ON) | —— |
| T.H.D. | Less than 0.6% (Metal) | Less than 0.6% (Metal) |
| Frequency response<br>NORM<br>$CrO_2$<br>METAL | <br>20 Hz to 19,000 Hz ± 3 dB<br>20 Hz to 20,000 Hz ± 3 dB<br>20 Hz to 21,000 Hz ± 3 dB | <br>20 Hz to 19,000 Hz ± 3 dB<br>20 Hz to 20,000 Hz ± 3 dB<br>20 Hz to 21,000 Hz ± 3 dB |
| Input sensitivity/Impedance<br>LINE IN | <br>70 mV/47 kohms | <br>70 mV/47 kohms |
| Output sensitivity/Impedance<br>LINE<br>PHONES | <br>388 mV/1 kohms<br>1.3 mW (8 ohms)/82 ohms | <br>388 mV/1 kohms<br>1.3 mW (8 ohms)/82 ohms |
| Power requirements | 120 V, 60 Hz for USA & Canada<br>220 V, 50 Hz for Europe except UK<br>240 V, 50 Hz for UK & Australia<br>110 V/120 V/220 V/240 V, 50 Hz/60 Hz convertible for other countries | 120 V, 60 Hz for USA & Canada<br>220 V, 50 Hz for Europe except UK<br>240 V, 50 Hz for UK & Australia<br>110 V/120 V/220 V/240 V, 50 Hz/60 Hz convertible for other countries |
| Dimensions | 440 (W) × 111 (H) × 353 (D) mm<br>(17.3 × 4.4 × 13.9 inches) | 440 (W) × 111 (H) × 353 (D) mm<br>(17.3 × 4.4 × 13.9 inches) |
| Weight | 6.5 kg (14.3 lbs) | 6.5 kg (14.3 lbs) |

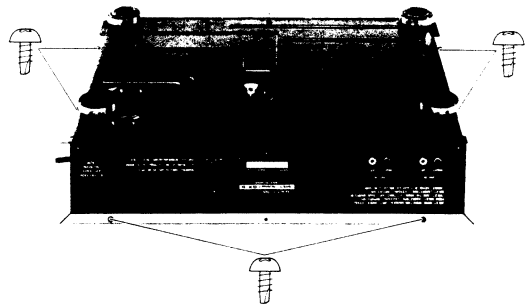
- For improvement purposes, specifications and design are subject to change without notice.
- "DOLBY" and double-D symbol are trademarks of DOLBY Laboratories Corporation. (Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.)
- dbx is a trademark of dbx incorporated.

# II. DISMANTLING OF UNIT

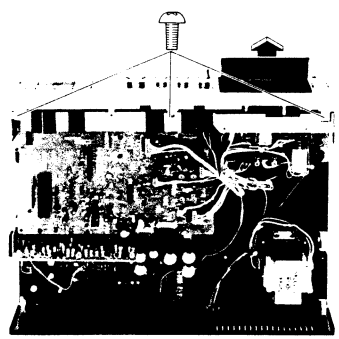
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

* Photographs employed here are of model GX-8

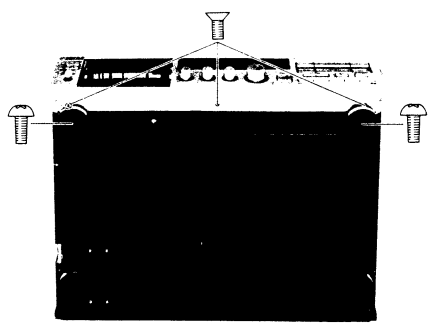
## 1. REMOVALE OF UPPER COVER



## 2. REMOVALE OF FRONT PANEL



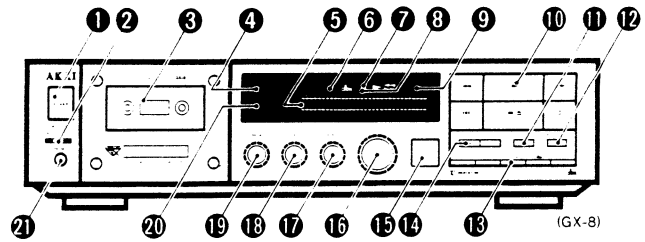
* Remove the cassette lid first then remove the front panel. (Turn on the Power and depress the Eject button.)



* Remove the Feet first then remove the front panel screws.



# III. CONTROLS




❶ **POWER Switch**
To turn ON and OFF the power.

❷ **TIMER START selector**
For absentee recording and timed playback.

❸ **Cassette holder and cassette lid (Power assisted)**
Load a cassette tape here. To open, press the STOP/EJECT CLOSE (■/≜) button. To close, press once again.
Do not manually open this cassette holder, as it may damage your equipment.

❹ **Digital counter and counter mode display (ELAPSED/REMAIN)**
Tape counter shows tape running time, elapsed time and tape remaining time.
When the power is turned off, the digital counter resets to "0" and the mode is set for tape counter.

❺ **Peak level meter and recording level guides**
Shows playback and recording peak levels. The proper recording level is marked by fine dotted lines (recording level guides) visible on the peak meter, which vary according to tape position and type of noise reduction used.

❻ **Noise reduction display DOLBY NR B, C and FILTER (GX-8 includes dbx noise reduction)**
Shows which noise reduction is engaged and if MPX filter switch is engaged.

❼ **Cassette deck mode display (REC, ◀◀, ▶▶, and ▶)**
Shows cassette deck's operation mode (recording, playback or tape winding).

❽ **IPLS display**
Shows IPLS (Instant Program Locating System) is engaged.

❾ **Monitor Mode display (TAPE/SOURCE)**
Shows MONITOR switch mode.

❿ **Operation buttons**
STOP/EJECT CLOSE (■/≜), REC PAUSE (●●), Play (▶), AUTO MUTE (○), Rewind (◀◀) and Fast Forward (▶▶) buttons for playback and recording operations.
Do not attempt to open or close the cassette holder manually.
Press the STOP/EJECT CLOSE (■/≜) button to open and close the cassette holder.

⓫ **IPLS buttton**
To select playback with the IPLS system.

⓬ **REC CANCEL button**
To cancel recording and rewind tape to the first detectable blank space of tape. Convenient for re-recording a section of tape.

⓭ **Noise reduction selector (NR OFF, DOLBY B, DOLBY C, and MPX FILTER switch (dbx noise reduction on GX-8 only)**
To select noise reduction for recording and playback purposes. The MPX FILTER switch eliminates pilot tones from FM stereo signals.
* The NR OFF switch does not turn the MPX filter OFF, to do so press the MPX filter switch once again.

⓮ **COUNTER RESET/MODE select button**
To reset the digital counter to "0", and to change the display mode of the digital counter.

⓯ **MONITOR TAPE/SOURCE switch**
To select the monitor mode either from a connected amplifier or through this cassette deck's headphones. This cassette deck is incorporated with an auto monitor system. If set for SOURCE and tape operation buttons (except AUTO MUTE button) are pressed, the MONITOR switch automatically changes to TAPE.

⓰ **REC LEVEL control**
To set recording levels. The level adjustment is the same amount for both right and left channels.

⓱ **REC BALANCE control**
To set the left and right channel balance of recording input levels.

⓲ **BIAS control**
To set the recording bias current. The bias adjustment range is between −20% and −20% of the proper bias current of each tape position. If using a reference tape recommended for use with Akai cassette decks, set this control to the center click "0" position.

⓳ **OUTPUT/PHONES control**
To adjust the output level of the casette deck.
* This control adjusts the LINE OUT and PHONES jack output levels.

⓴ **Tape position display (METAL, $CrO_2$, NORM)**
Shows position of the loaded cassette tape.

㉑ **PHONES jack**
To listen through a pair of headphones, connect them to this jack.

# IV. PRINCIPAL PARTS LOCATION

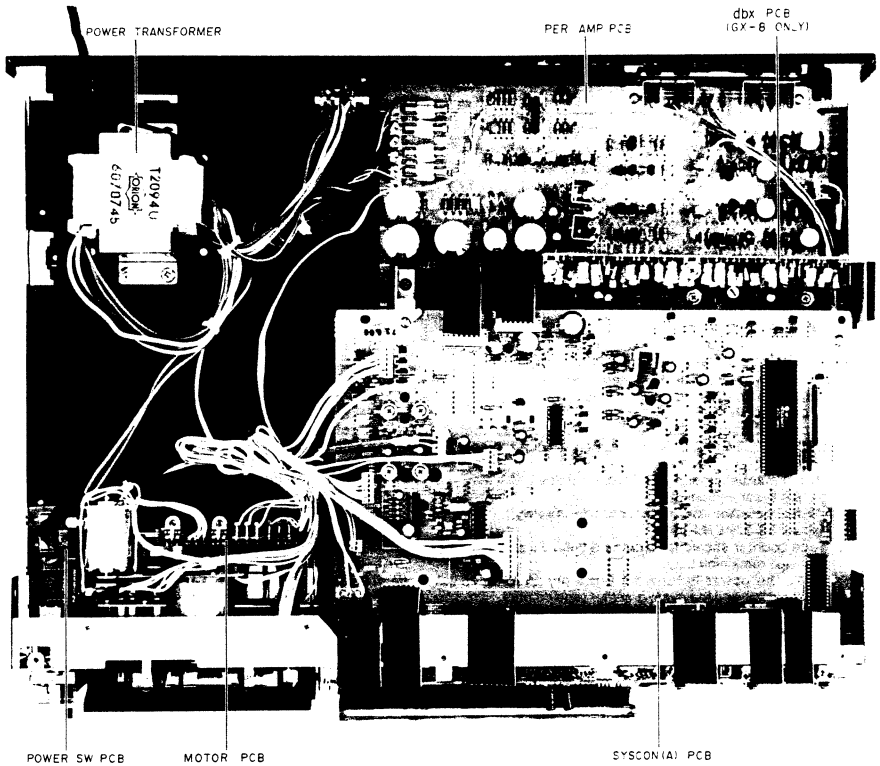



Fig. 4-1. Top View

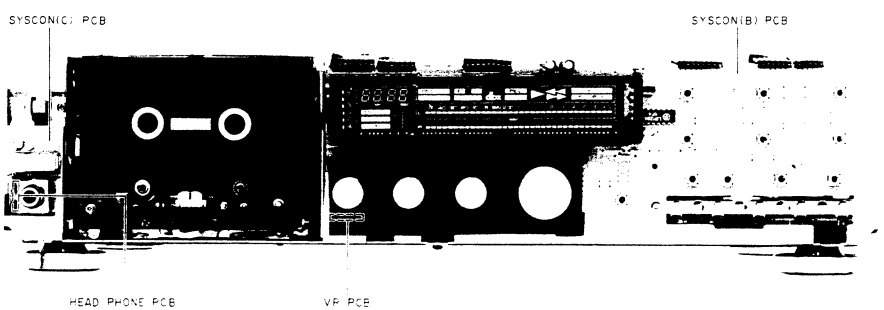



Fig. 4-2. Front View



# V. MECHANICAL ADJUSTMENT

5-1. PINCH ROLLER PRESSURE MEASUREMENT (Refer to Fig. 5-1)

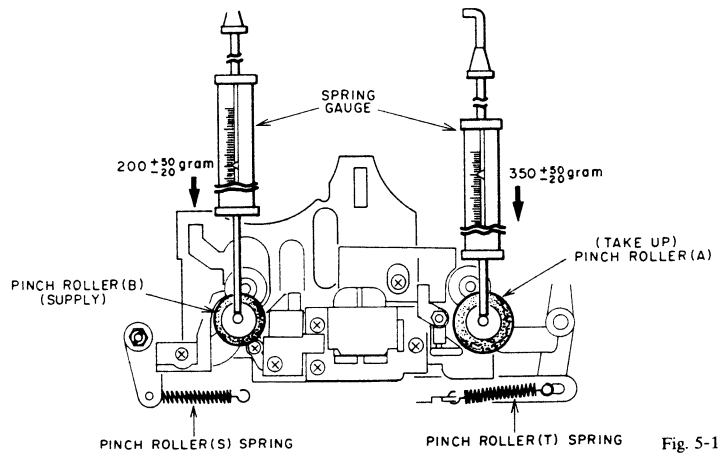



Fig. 5-1

Put in PLAY mode. Push pinch roller arm down with the spring gauge push the pinch roller 1 or 2 mm from the capstan and release slowly. Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate.

Specified pressure: $350\ ^{+50}_{-20}$ gram (Take up)

$200\ ^{+50}_{-20}$ gram (Supply)

If there is no measurement obtained, replace the pinch roller spring.

5-2. WINDING TORQUE MEASUREMENT IN EACH MODE (Refer to Fig. 5-2)

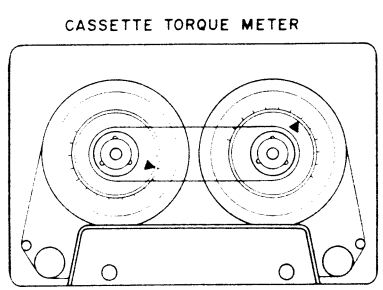



Fig. 5-2

Insert a cassette torque meter (AJ-751179) and measure in each mode. For Fast Forward and Rewind, measure at the end of the tape when the tape has stopped running.

PLAY mode

Take up Torque : $40\ ^{+20}_{-10}$ g-cm

Back tension torque : $10\ ^{+10}_{-\ 0}$ g-cm

FAST FORWARD, REWIND mode

Take up Torque : $120\ ^{+130}_{-\ 50}$ g-cm

## 5-3. HOW TO INSTALL VOLUME (VR 901) AND CAM WHEEL

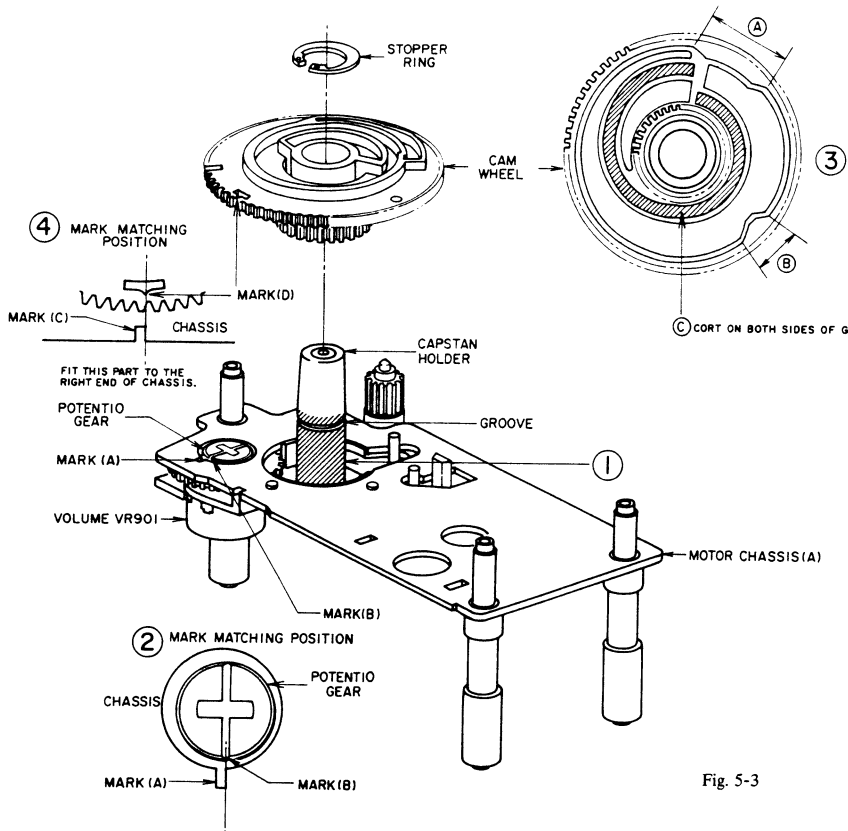



Fig. 5-3

1) Apply Molybdenum coat on the capstan holder
   Apply Molybdenum coat on the area of 360° from the bottom to the upside 2mm of groove as shown in the figure. (Fig. 5-3-①)
2) Fitting position volume (potentio gear)
   Fit the right end of Mark (A) to the center of Mark (B) as shown in the figure. (Fig. 5-3-②)
3) Apply the Molybdenum coat on Ⓐ, Ⓑ and Ⓒ shown in Fig. 5-3-③.
4) Set the cam wheel on the capstan wheel (Ensure that the cam wheel and potentio gear are meshed properly).
   When the cam wheel is set properly, fit the center of Mark (D) to the right end of Mark (C). (Fig. 5-3-④)
5) Fit the stopper ring in the groove of the capstan holder.

CAUTIONS:

1. Make sure that the teeth on the periphery of cam wheel and the cam are absolutely free from any scratch, cut, etc.
2. Make sure that Molybdenum coat is applied on the specified area only.



## 5-4. POTENTIOMETER PRESET VOLTAGE ADJUSTMENT (Refer to Fig. 5-4 to 5-5)

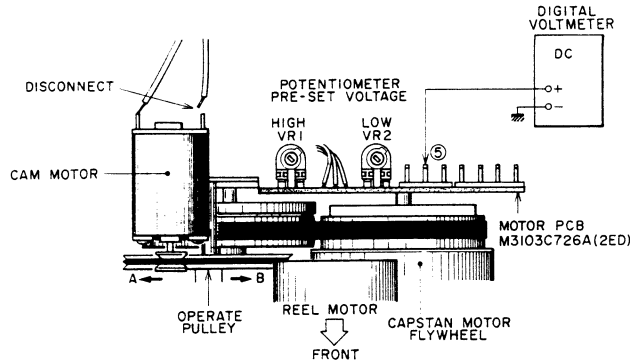



Fig. 5-4

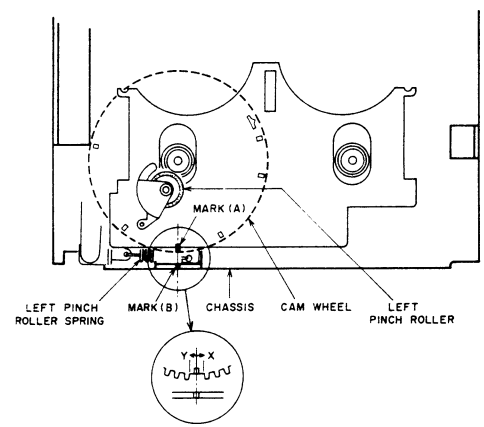



Fig. 5-5

1) LOW VOLTAGE ADJUSTMENT
   a. With power OFF, remove the connecting cord of the cam motor and turn the operate pulley fully with your fingers in A direction. (EJECT DIRECTION)
   b. Connect the digital voltmeter as shown in Fig. 5-4.
   b. With power ON, adjust VR2 so that the voltage reading will be 0.94V (DC).
2) HIGH VOLTAGE ADJUSTMENT
   a. With power OFF, turn the operate pulley fully with your fingers in B direction. (PLAY DIRECTION)
   b. With power ON, adjust VR1 so that the voltage reading will be 8.08V (DC).
3) Repeat Items 1) and 2).
4) a. With Power OFF, connect the connecting cord of the motor.
   b. Remove the digital voltmeter.
5) Remove the Cassette lid, Front panel and Bottom cover.
6) a. Set power to ON.
   b. Adjust VR1 slightly so that the center of Marker (A) coincides with the center of Marker (B) (should be within the range between X and Y) at STOP Mode as shown in Fig. 5-5.
   (The marker (STOP) on the CAM WHEEL can be seen clearly by lighting it from the back.)
   b. Set the IPLS switch to ON.
   d. Confirm that head and pinch rollers do not move up and down when the FF and REW switches are alternately depressed.
   e. Turn the reel with fingers in STOP Mode to check that the brake works sufficiently.
   When the brake acts normally, the take-up reel does not turn clockwise while the supply reel does not rotate counterclockwise

# VI. HEAD ADJUSTMENT

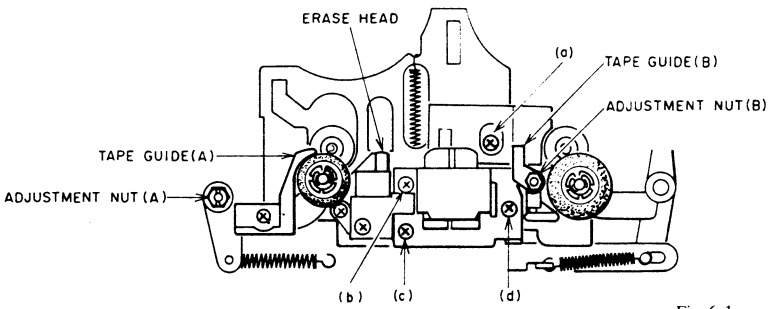



Fig. 6-1

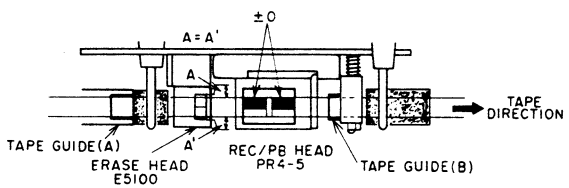



Fig. 6-2

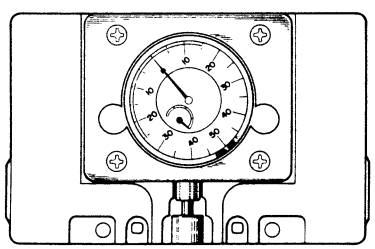


Fig. 6-3 Cassette Head Projection Gauge (AJ-751180)

6-1. REC/PB HEAD PROJECTION ADJUSTMENT

Take off the LID CASE and set the cassette head projection gauge (AJ-751180) and set to PLAY mode. Loosen the screw (a) and adjust so that the gauge indication at that time will be 3.2 + 0.1 mm. After adjustment, apply paintlock on the screw (a).

6-2. TAPE GUIDE HEIGHT ADJUSTMENT

1) Set the mirror cassette tape (AJ-751178) and set to PLAY mode.
2) Adjust the tape guide (A) so that the parts of the erase head coming out of both sides of the tape (A and A' in Fig. 6-2 will be equal. For the adjustment, use the adjustment nut (A).
3) Adjust the tape guide (B) so that the tape runs smoothly and is not hitched by the tape guide.
   For the adjustment, use the adjustment nut (B).
4) After adjustment, paint-lock the adjustment nuts (A) and (B).

6-3. REC/PB HEAD HEIGHT ADJUSTMENT

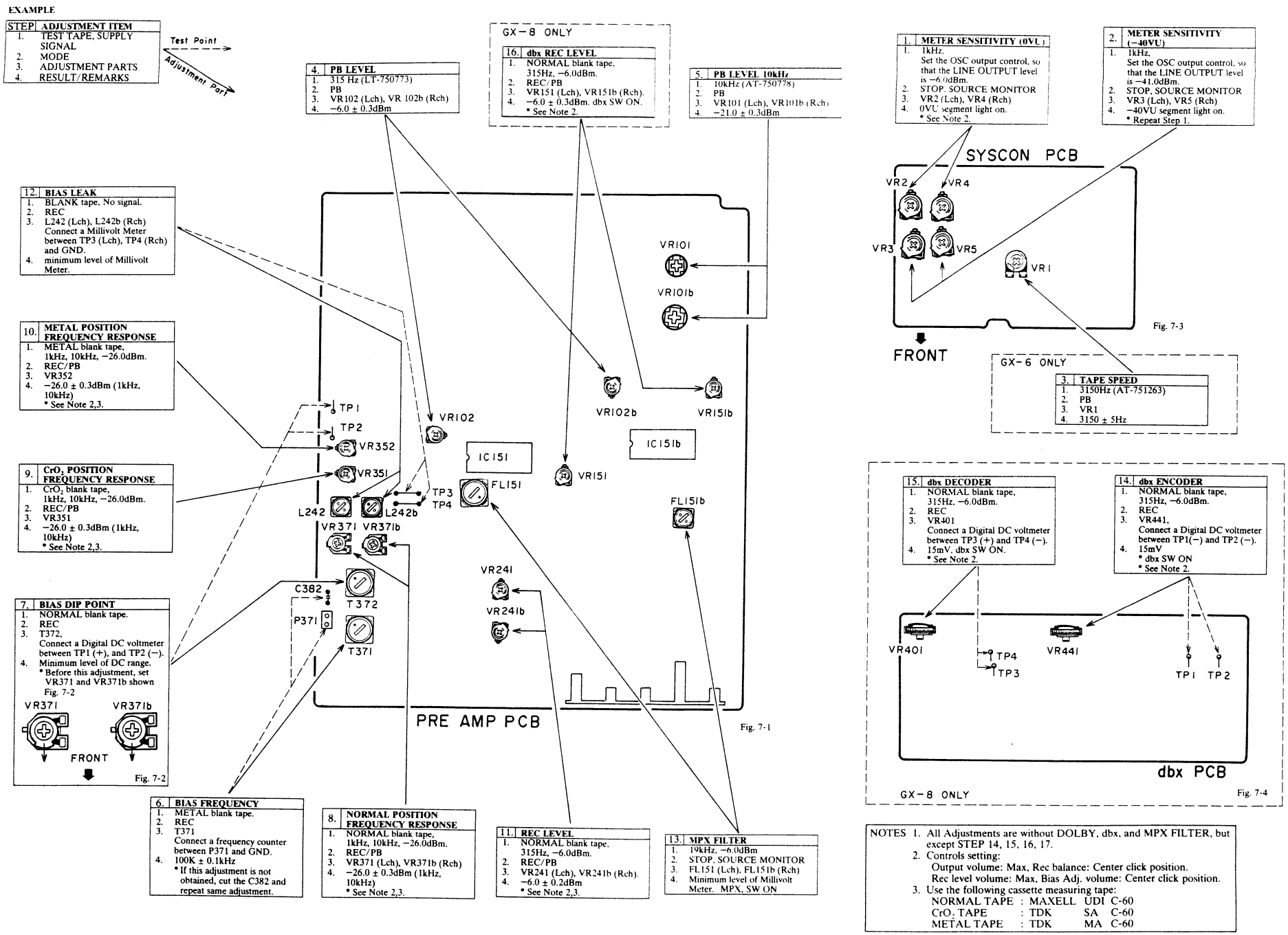
1) Set the mirror cassette tape and set to PLAY mode.
2) Adjust the screws (b), (c) and (d) so that the upper edge of REC/PB head Lch core and the upper side of the tape is in alignment.
3) Playback the head height adjustment tape (4 Track 1,000Hz) (AT-750775), and fine-adjust the screws (b), (c) and (d) so that the largest output is obtained for both channels.

6-4. REC/PB HEAD AZIMUTH ALIGNMENT ADJUSTMENT

1) Playback a 10kHz Head Azimuth Alignment Tape (AT-750778) and adjust the screw (d) until the output levels of both channels are at maximum.
2) Record a 10kHz, −26dBm signal from the audio frequency oscillator.
3) Rewind and check for any fluctuation in the output level at playback.
4) After adjustment, paintlock the screws (b), (c) and (d).

NOTES:
1. Be sure to clean the heads prior to head adjustment.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.

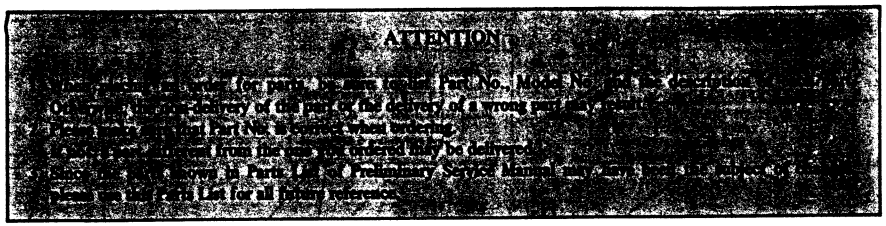
# VII. PRE AMP, SYSCON and dbx PCB ADJUSTMENT




NOTES
1. All Adjustments are without DOLBY, dbx, and MPX FILTER, but except STEP 14, 15, 16, 17.
2. Controls setting:
   Output volume: Max, Rec balance: Center click position.
   Rec level volume: Max, Bias Adj. volume: Center click position.
3. Use the following cassette measuring tape:

| | | | |
|---|---|---|---|
| NORMAL TAPE | : MAXELL | UDI | C-60 |
| CrO2 TAPE | : TDK | SA | C-60 |
| METAL TAPE | : TDK | MA | C-60 |

# VIII.PARTS LIST




## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

### 2. HEAD BASE BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 2-1x | BH-T2023A320A | HEAD BASE BLOCK |
| 2-2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 2-3 | ZS-477876 | PAN20×03STL CMT |
| 2-4 | ZS-536488 | BID20×08STL CMT |
| 2-5 | ZG-402895 | SP CS ANGLE ADJUST |

SP (Service Parts) Classification

A small "x" indicates that this part is not shown in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure.

This number corresponds with the Figure Number.

b) PC Board

### 6. MAIN PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 6-IC1 | EI-324536 | IC HD14049BP |
| 6-IC2 | EI-336801 | IC MB8841-564M |
| 6-C1A | EC-338399 | C MMY V 223M 250AC [U,E,B,S] |
| 6-C1B | EC-350949 | C MMY V 223M 250DC [J] |
| 6-C1C | EC-338397 | C MMY V 223M 125AC [C,A] |
| 6-X1 | EI-318384 | OSC X'TAL NC-18C |

Symbols for primary destination
[A]: AAL(U.S.A.) [S]: SAA(Australia)
[B]: BEAB(England) [U]: U/T(Universal Area)
[C]: CSA(Canada) [V]: VDE(W. Germany)
[E]: CEE(Europe) [Y]: Custom Version
[J]: JPN(Japan)

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

**WARNING**

**⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.**

**AVERTISSEMENT**

**⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LÉ FABRICANT.**

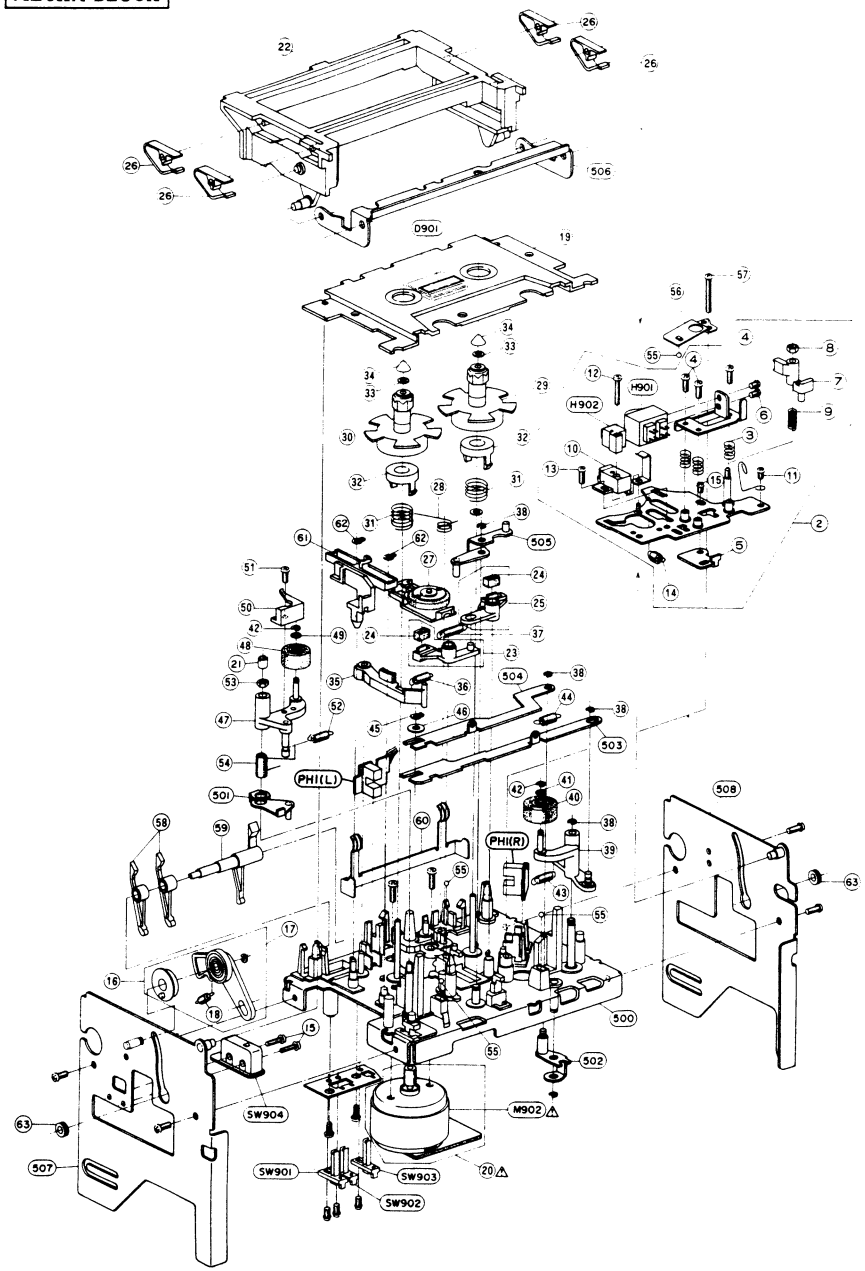


## 1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

| Ref. No. | Part No. | Description |
|---|---|---|
| 1 | BF-B336024 | FLYWHEEL (A) PART |
| 2 | BH-T2047A060C | HEAD BLK GX-8 |
| 3 | BM-M3104A010B | MOTOR BLM-310B |
| 4 | BM-B345196 | MOTOR OPERATION (PULLEY) PART |
| 5 | BM-B336989 | MOTOR REEL (PULLEY) PART |
| 6 | BM-T2030A120C | REEL MOTOR BLK GX-9 |
| 7 | BR-T2069A360A | REEL TABLE BLK GX-9 |
| 8 | *BT-369969 | TRANS POWER T2094 (E) |
| 9 | *BT-369968 | TRANS POWER T2094(A,C) |
| 10 | *BT-369970 | TRANS POWER T2094(B,S) |
| 11 | *BT-369965 | TRANS POWER T2094(U) |
| 12 | *BT-337226 | TRANS POWER T-2032(B,S) |
| 13 | *ED-330319 | D SILICON DBA10B 100/1.0A |
| 14 | *ED-349662 | D SILICON DS135E-FA6 F10 100/1.0A |
| 15 | *ED-370052 | D SILICON V 11DF1 F05 100/1.0A |
| 16 | ED-344244 | D LED SLF601C AMBER |
| 17 | ED-301911 | D SILICON H DS448 |
| 18 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 19 | ED-324014 | D ZENER H HZ11 B1 |
| 20 | ED-346611 | D ZENER H HZ11 B3 |
| 21 | ED-338561 | D ZENER H HZ2FA F10 B2 |
| 22 | ED-331626 | D ZENER H HZ3 B2 |
| 23 | ED-338332 | D ZENER H HZ4 A2 |
| 24 | ED-306010 | D ZENER H HZ6 A2 |
| 25 | ED-331617 | D ZENER H HZ6 A3 |
| 26 | ED-338559 | D ZENER H HZ6 B1 |
| 27 | ED-319167 | D ZENER H HZ6 C3 |
| 28 | ED-302295 | D ZENER H HZ7 C3 |
| 29 | ED-346609 | D ZENER H HZ9 C1 |
| 30 | *EF-359007 | FUSE BET T 250V 1.25A [B] |
| 31 | *EF-358974 | FUSE BET T 250V 630MA [B] |
| 32 | *EF-341263 | FUSE GGS A 125V 1.25A [C,A] |
| 33 | *EF-602550 | FUSE SEMKO T 250V 1.25A [U,E,S] |
| 34 | *EF-601942 | FUSE SEMKO T 250V 630MA [U,E,S] |
| 35 | *EF-308847 | FUSE TSC 125V 1.60A [C,A] |
| 36 | EH-369996 | FILTER DB 42B-5141-00 |
| 37 | EI-337568 | HALL ELEMENT DHD-H070 |
| 38 | EI-354822 | IC AN6291 [GX-8 ONLY] |
| 39 | EI-370012 | IC BA6805A |
| 40 | EI-370022 | IC HA12090NT |
| 41 | EI-370011 | IC HD6305 XOA74P CUSTOM |
| 42 | EI-336761 | IC LA6458S |
| 43 | EI-343417 | IC LB1294 |
| 44 | EI-355602 | IC LB1649 |
| 45 | EI-337008 | IC LC7800 |
| 46 | EI-357498 | IC M51143AL |
| 47 | EI-337228 | IC M5218L |
| 48 | EI-362587 | IC M5238L |
| 49 | EI-362588 | IC M5238P |
| 50 | EI-355115 | IC M5240P |
| 51 | EI-201940 | IC NJM4558S |
| 52 | EI-331275 | IC TC9142P [GX-8 ONLY] |
| 53 | EI-336992 | IC UPC1043C [GX-6 ONLY] |
| 54 | EI-349372 | OSC CE CSA4.00MG 4MHZ |
| 55 | EI-337123 | OSC X'TAL 4.07010MHZ [GX-8 ONLY] |
| 56 | EM-370015 | IND FL BG-383ZK |
| 57 | *ER-318647 | R FUSE ERD2FC S10 1/4W 4R7J |
| 58 | *ER-200926 | R FUSE ERD2FC S10 1/4W 27R0G |
| 59 | *ES-337902 | SW PUSH SDLD1P 01-1 |
| 60 | *ES-359606 | SW SELECTOR 8T-41S0454 01-4 |
| 61 | ES-336990 | SW LEAF BSW-169 01-1 NO |
| 62 | ES-337427 | SW MICRO SS-01-E |
| 63 | ES-370003 | SW PUSH SPUY54 5 THROW [GX-8 ONLY] |
| 64 | ES-370004 | SW PUSH SPUY44 4 THROW [GX-6 ONLY] |
| 65 | ES-370933 | SW SLIDE SSSU 01-03N |
| 66 | ES-349474 | SW TACT SKHHAM004A |
| 67 | ET-345460 | TR 2SA1208 R,S,T |
| 68 | ET-348829 | TR 2SA1209 S,T |
| 69 | ET-354841 | TR 2SA1282A F,G F05 |
| 70 | ET-370038 | TR 2SC2910 S,T |
| 71 | ET-348831 | TR 2SC2911 S,T |
| 72 | ET-357845 | TR 2SC3242A F,G F05 |
| 73 | ET-370913 | TR 2SD1508 |
| 74 | ET-345091 | DETECTOR SPI-201-40 B,C |
| 75 | ET-356336 | TR DTA114ES |
| 76 | ET-370017 | TR DTA114YF |
| 77 | ET-370074 | TR DTA123JF |
| 78 | ET-371075 | TR DTA124XS |
| 79 | ET-354414 | TR DTC144ES |
| 80 | ET-354897 | TR FET 2SK170 BL,GR,V |
| 81 | ET-308472 | TR 2SA1115 E,F,G F05 |
| 82 | ET-352726 | TR 2SA1392 T,U |
| 83 | ET-370013 | TR 2SA874 Q,R |
| 84 | ET-337012 | TR 2SA984K D,E |
| 85 | ET-337011 | TR 2SC2274K D,E F05 |
| 86 | ET-308977 | TR 2SC2274K F F05 |
| 87 | ET-349705 | TR 2SC2320 E,F,G |
| 88 | ET-308141 | TR 2SC2603 G F05 |
| 89 | ET-357845 | TR 2SC3242A F,G F05 |
| 90 | ET-349081 | TR 2SC3383 S,T |
| 91 | ET-349608 | TR 2SC3383 T,U |
| 92 | ET-350795 | TR 2SC3399 F05 |
| 93 | ET-349366 | TR 2SC3402 F05 |
| 94 | ET-347961 | TR 2SD1012-V G F05 |
| 95 | EV-370008 | VR ROTARY T2094 B202 |
| 96 | EV-370005 | VR ROTARY T2094 2 THROW A503 |
| 97 | EV-370007 | VR ROTARY T2094 2 THROW B103 |
| 98 | EV-370006 | VR ROTARY T2094 2 THROW 503MN |
| 99 | EV-337052 | VR ROTARY 16L10XOR B103 |
| 100 | HE-337837 | HEAD E E51005770 |
| 101 | HR-H2405A010A | HEAD COMB RP4-10HG RP4-10HG |
| 102 | MB-336026 | BELT CAPSTAN |
| 103 | MB-336021 | BELT OPERATION |
| 104 | MI-336025 | FLYWHEEL (B) |
| 105 | MP-336204 | PINCH ROLLER (B) |
| 106 | MP-346329 | PINCH ROLLER(C) |

MECHA BLOCK





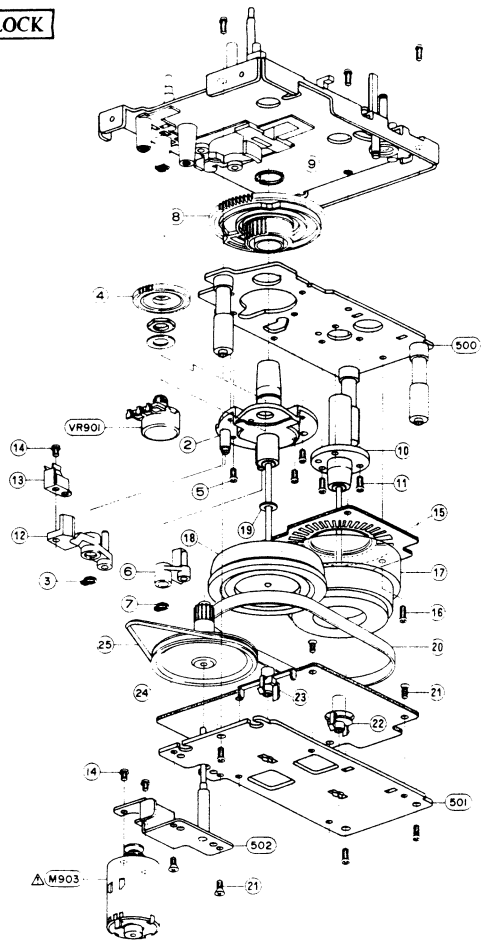

## 2. MECHA BLOCK

| Ref. No. | Part No. | Description |
|---|---|---|
| 2-1 | BB-T2047A020D | MECHA BLK GX-8 |
| 2-2 | BH-T2047A060C | HEAD BLK GX-8 |
| 2-3 | ZG-336127 | SP PUSH HEAD |
| 2-4 | ZS-608095 | PAN20X05STL CMT |
| 2-5 | HZ-336132 | ADJUST PLATE |
| 2-6 | ZS-477876 | PAN20X03STL CMT |
| 2-7 | HZ-336129 | GUIDE TAPE |
| 2-8 | ZW-618884 | W20STL CMT 1 |
| 2-9 | ZG-336130 | SP PUSH GUIDE |
| 2-10 | HZ-343000 | HOLDER E HEAD |
| 2-11 | ZS-201407 | PAN23X03STL CMT |
| 2-12 | ZS-365189 | BT PAN26X14STL CMT |
| 2-13 | ZS-499331 | PAN23X05STL CMT |
| 2-14 | ZG-341972 | SP PULL HEAD RETURN |
| 2-15 | ZS-310337 | PAN20X08STL CMT |
| 2-16 | BZ-T2030A110A | OIL CLUTCH BLK GX-F51 |
| 2-17 | ZW-270088 | RING E190SUP CMT |
| 2-18 | ZG-341970 | SP PULL OIL CLUTCH |
| 2-19 | BD-B365352-A | LID DECORATION (A) PART |
| 2-20 | *BM-T2030A120C | REEL MOTOR BLK GX-9 |
| 2-21 | ZW-356166 | W |
| 2-22 | SP-336163B | LID CASE2 |
| 2-23 | BL-T2030A160A | LEVER BRAKE (A) BLK GX-F51 |
| 2-24 | TC-336146 | BRAKE RUBBER |
| 2-25 | BL-T2030A170A | LEVER BRAKE (B) BLK GX-F51 |
| 2-26 | ZG-336615 | SP PLATE CASSETTE HOLDER (B) |
| 2-27 | TC-336605 | WIND IDLER ASSY |
| 2-28 | ZG-336140 | SP TORSION IDLER |
| 2-29 | BR-T2069A360A | REEL TABLE BLK GX-9 |
| 2-30 | BR-T2069A360A | REEL TABLE BLK GX-9 |
| 2-31 | ZG-336141 | SP PUSH BT |
| 2-32 | TC-336142 | HOLDER BT SP |
| 2-33 | ZW-330073 | PW21X040X020 TOUGH LIGHT NO440 |
| 2-34 | MT-305793 | REEL CAP |
| 2-35 | BL-B336196 | LEVER BT PART |
| 2-36 | ZG-330078 | SP T2-03.2 0.20-09.0 T2-038 |
| 2-37 | ZG-312946 | SP T1-03.2 0.29-16.0 T1-062 |
| 2-38 | ZW-270088 | RING E190SUP CMT |
| 2-39 | BL-B336150 | ARM PINCH ROLLER (A) PART |
| 2-40 | MP-346329 | PINCH ROLLER(C) |
| 2-41 | ZW-305546 | PW21X040X025PSL |
| 2-42 | ZW-356657 | RING E150SUP CMT |
| 2-43 | ZG-336175 | SP PULL PINCH ROLLER (T) |
| 2-44 | ZG-321534 | SP T2-03.2 0.29-12.5 T2-060 |
| 2-45 | ZW-336603 | RING GRIP 285SUP ACP |
| 2-46 | ZW-306464 | PW31X070X050STL CMT |
| 2-47 | BL-B336202 | ARM PINCH ROLLER (B) PART |
| 2-48 | MP-336204 | PINCH ROLLER (B) |
| 2-49 | ZW-381644 | PW21X040X013PSL |
| 2-50 | HZ-336205 | GUIDE TAPE (B) |
| 2-51 | ZS-608095 | PAN20X05STL CMT |
| 2-52 | ZG-336206 | SP TORSION RETURN |
| 2-53 | ZW-618884 | W20STL CMT 1 |
| 2-54 | ZG-336208 | SP PULL PINCH ROLLER (S) |
| 2-55 | MV-357208 | BALL 200STL |
| 2-56 | ZG-336157 | SP PLATE HEAD HOLD |
| 2-57 | ZS-342002 | ST PAN26X16STL CMT |
| 2-58 | ML-336158 | LEVER DETECTION (B) |
| 2-59 | ML-336159 | LEVER DETECTION (A) |
| 2-60 | ZG-336160 | SP PLATE CASSETTE HOLDER (A) |
| 2-61 | TC-336161 | SLIDE EJECT |
| 2-62 | ZW-329422 | RING CS 0300 |
| 2-63 | SZ-336166 | COLLAR LD |

| Ref. No. | Part No. | Description |
|---|---|---|
| 2-M902 | *BM-B336989 | MOTOR REEL (PULLEY) PART |
| 2-H901 | HR-H2405A010A | HEAD COMB RP4-10HG RP4-10HG REC PB HEAD |
| 2-H902 | HE-337837 | HEAD E E51005770 ERASE HEAD |
| 2-D901 | ED-344244 | D LED SLP601C AMBER HOUSING LED |
| 2-SW901 | ES-336990 | SW LEAF BSW-169 01-1 NO ANTI REC |
| 2-SW902 | ES-336990 | SW LEAF BSW-169 01-1 NO CP02 DETECTOR |
| 2-SW903 | ES-336990 | SW LEAF BSW-169 01-1 NO METAL DETECTOR |
| 2-SW904 | ES-337427 | SW MICRO SS-01-E LOADING SW |
| 2-PH1L | ET-345091 | DETECTOR SPI-201-40 B.C DETECTOR L PCB |
| 2-PH1R | ET-345091 | DETECTOR SPI-201-40 B.C DETECTOR R PCB |

NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.

MOTOR BLM310B BLOCK




## 3. MOTOR BLM-310B BLOCK

| Ref. No. | Part No. | Description |
|---|---|---|
| 3-1 | BM-M3104A010B | MOTOR BLM-310B |
| 3-2 | TC-B336004A | HOLDER CAPSTAN (C-1) PART |
| 3-3 | ZW-653163 | RING CS 280STL PKR |
| 3-4 | MZ-336005 | GEAR POTENTION |
| 3-5 | ZS-432843 | PAN26X04STL CMT |
| 3-6 | BL-B336007 | LEVER BRAKE CAM PART |
| 3-7 | ZW-653163 | RING CS 280STL PKR |
| 3-8 | MZ-336006 | CAM WHEEL |
| 3-9 | ZW-336604 | RING S930SUP ACP |
| 3-10 | TC-336002 | HOLDER CAPSTAN (B) |
| 3-11 | ZS-479474 | PAN26X05STL CMT |
| 3-12 | BL-B336009 | LEVER EJECT CAM PART |
| 3-13 | ZG-336011 | SP PLATE CAM LEVER |
| 3-14 | ZS-477876 | PAN20X03STL CMT |
| 3-15 | EA-336012 | PC FG |
| 3-16 | ZS-479474 | PAN26X05STL CMT |
| 3-17 | BF-B336024 | FLYWHEEL (A) PART |
| 3-18 | MI-336025 | FLYWHEEL (B) |
| 3-19 | ZW-309295 | WASHER THRUST |
| 3-20 | MB-336026 | BELT CAPSTAN |
| 3-21 | ZS-477887 | CTS26X05STL CMT |
| 3-22 | TC-336016 | HOLDER THRUST (A) |
| 3-23 | TC-336027 | HOLDER THRUST (B) |
| 3-24 | MR-336019 | PULLEY OPERATE |
| 3-25 | MB-336021 | BELT OPERATION |
| 3-VR901 | EV-337052 | VR ROTARY 16L10XOR B103 |
| 3-M903 | *BM-B345196 | MOTOR OPERATION (PULLEY) PART |

NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.



## 4. P.C BOARD BLOCK

| Ref. No. | Part No. | Description |
|---|---|---|
| 4-1A | BA-T2094A020A | PC(#) PRE AMP BLK GX-8-S |
| 4-1B | BA-T2094A020B | PC(#) PRE AMP BLK GX-6-S |
| 4-2A | BA-T2094A030A | PC# SYSCON BLK GX-8-S(U,J,C,A) |
| 4-2B | BA-T2094A030B | PC(#) SYSCON BLK GX-8-S(E,B,S) |
| 4-2C | BA-T2094A030C | PC# SYSCON BLK GX-6-S(U,J,C,A) |
| 4-2D | BA-T2094A030D | PC(#) SYSCON BLK GX-6-S(E,B,S) |

PC PRE AMP BLK CONSISTS OF FOLLOWING P.C. BOARD.

- PRE AMP P.C. BOARD
- VR P.C. BOARD
- HEADPHONE P.C. BOARD

PC SYSCON BLK CONSISTS OF FOLLOWING P.C. BOARD.

- SYSCON (A) P.C. BOARD
- SYSCON (B) P.C. BOARD
- POWER SW P.C. BOARD
- SYSCON (C) P.C. BOARD
- dBX P.C. BOARD (GX-8 ONLY)

## 5. PRE-AMP P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 5-C101 | EC-347400 | C MC V F05 FE92 680J 500DC |
| 5-C103 | EC-365560 | C PP V F05 CSF3 562J 125DC |
| 5-C104 | EC-347408 | C MC V F05 FE92 101J 500DC |
| 5-C105 | EC-347263 | C MC V F05 FM 221J 500DC |
| 5-C109 | EC-365560 | C PP V F05 CSF3 562J 125DC |
| 5-C151 | EC-355434 | C MMY V MKT 105K 100DC |
| 5-C181 | EC-355461 | C MY V MKT 334K 100DC |
| 5-C191 | EC-365566 | C PP V F05 CSF3 3301G 125DC |
| 5-C194 | EC-365568 | C PP V F05 CSF3 4701G 125DC |
| 5-C250 | EC-347128 | C MC V F05 FE92 470J 500DC |
| 5-C253 | EC-355434 | C MMY V MKT 105K 100DC |
| 5-C301 | EC-362464 | C EC V CUT AS1 222M 25.0DC |
| 5-C311 | EC-362464 | C EC V CUT AS1 222M 25.0DC |
| 5-C325 | EC-365619 | C EC V CUT AS1 102M 25DC |
| 5-C375 | EC-365559 | C PP V F10 ECQ-F 562J 630DC |
| 5-C376 | EC-337250 | C PP V F10 ECQ-F 102J 630DC |
| 5-C377 | EC-337250 | C PP V F10 ECQ-F 102J 630DC |
| 5-C381 | EC-347247 | C MC V F05 FM 101J 500DC |
| 5-C382 | EC-347255 | C MC V F05 FM 151J 500DC |
| 5-C501 | EC-365520 | C EC V CUT AS1 472M 25.0DC |
| 5-C502 | EC-365520 | C EC V CUT AS1 472M 25.0DC |
| 5-C503 | EC-365520 | C EC V CUT AS1 472M 25.0DC |
| 5-D201 | ED-301911 | D SILICON H DS448 |
| 5-D221 | ED-337266 | D ZENER H HZ9 A1 |
| 5-D222 | ED-337266 | D ZENER H HZ9 A1 |
| 5-D301 | *ED-370052 | D SILICON V 11DF1 F05 100／1.0A |
| 5-D302 | *ED-370052 | D SILICON V 11DF1 F05 100／1.0A |
| 5-D303 | *ED-370052 | D SILICON V 11DF1 F05 100／1.0A |
| 5-D304 | *ED-370052 | D SILICON V 11DF1 F05 100／1.0A |
| 5-D311 | ED-306010 | D ZENER H HZ6 A2 |
| 5-D312 | ED-306010 | D ZENER H HZ6 A2 |
| 5-D321 | ED-302295 | D ZENER H HZ7 C3 |
| 5-D322 | ED-302295 | D ZENER H HZ7 C3 |
| 5-D323 | *ED-349662 | D SILICON DS135E-FA6 F10 100／1.0A |
| 5-D324 | *ED-349662 | D SILICON DS135E-FA6 F10 100／1.0A |
| 5-D341 | ED-301911 | D SILICON H DS448 |
| 5-D342 | ED-301911 | D SILICON H DS448 |
| 5-D351 | ED-301911 | D SILICON H DS448 |
| 5-D352 | ED-301911 | D SILICON H DS448 |
| 5-D501 | *ED-349662 | D SILICON DS135E-FA6 F10 100／1.0A |
| 5-D502 | *ED-349662 | D SILICON DS135E-FA6 F10 100／1.0A |
| 5-D503 | *ED-330319 | D SILICON DBA10B 100／1.0A |
| 5-D504 | *ED-349662 | D SILICON DS135E-FA6 F10 100／1.0A |
| 5-FL151 | EH-369996 | FILTER DB 42B-5141-00 |
| 5-FR301 | *ER-318647 | R FUSE ERD2FC S10 1／4W 4R7J |
| 5-FR302 | *ER-318647 | R FUSE ERD2FC S10 1／4W 4R7J |
| 5-FR311 | *ER-318647 | R FUSE ERD2FC S10 1／4W 4R7J |
| 5-FR312 | *ER-318647 | R FUSE ERD2FC S10 1／4W 4R7J |
| 5-FR351 | *ER-200926 | R FUSE ERD2FC S10 1／4W 27R0G |
| 5-FR352 | *ER-200926 | R FUSE ERD2FC S10 1／4W 27R0G |
| 5-IC101 | EI-355115 | IC M5240P |
| 5-IC121 | EI-362587 | IC M5238L |
| 5-IC131 | EI-357498 | IC M51143AL |
| 5-IC151 | EI-370022 | IC HA12090NT |
| 5-IC221 | EI-337228 | IC M5218L |
| 5-IC241 | EI-362588 | IC M5238P |
| 5-J101 | EJ-369994 | PIN J T2094 4P |
| 5-L151 | EO-369997 | COIL FIX 1 79-5248-13 363J |
| 5-L152 | EO-369997 | COIL FIX 1 79-5248-13 363J |
| 5-L241 | EO-369998 | COIL FIX 1 79-5250-13 103J |
| 5-L242 | EO-369999 | COIL FIX 1 79-5249-13 542J |
| 5-L371 | EO-345920 | COIL FIX 1 LAL03KH 330K |
| 5-L372 | EO-345920 | COIL FIX 1 LAL03KH 330K |
| 5-SW1A | ES-370003 | SW PUSH SPUY54 5 THROW |
| 5-SW1B | ES-370004 | SW PUSH SPUY44 4 THROW |
| 5-TR101 | ET-349081 | TR 2SC3383 S,T |
| 5-TR102 | ET-356336 | TR DTA114ES |
| 5-TR191 | ET-349081 | TR 2SC3383 S,T |
| 5-TR192 | ET-349081 | TR 2SC3383 S,T |
| 5-TR201 | ET-354897 | TR FET 2SK170 BL.GR.V |
| 5-TR202 | ET-354897 | TR FET 2SK170 BL.GR.V |
| 5-TR203 | ET-354414 | TR DTC144ES |
| 5-TR204 | ET-354414 | TR DTC144ES |
| 5-TR221 | *ET-370038 | TR 2SC2910 S,T |
| 5-TR222 | *ET-345460 | TR 2SA1208 R,S,T |
| 5-TR241 | ET-349081 | TR 2SC3383 S,T |
| 5-TR242 | ET-349081 | TR 2SC3383 S,T |
| 5-TR243 | ET-349081 | TR 2SC3383 S,T |
| 5-TR244 | ET-349081 | TR 2SC3383 S,T |
| 5-TR245 | ET-349081 | TR 2SC3383 S,T |
| 5-TR246 | ET-349081 | TR 2SC3383 S,T |
| 5-TR247 | ET-352726 | TR 2SA1392 T,U |
| 5-TR248 | ET-349081 | TR 2SC3383 S,T |
| 5-TR301 | *ET-370038 | TR 2SC2910 S,T |
| 5-TR302 | ET-352726 | TR 2SA1392 T,U |
| 5-TR303 | ET-349081 | TR 2SC3383 S,T |
| 5-TR304 | ET-352726 | TR 2SA1392 T,U |
| 5-TR311 | *ET-345460 | TR 2SA1208 R,S,T |
| 5-TR312 | ET-349081 | TR 2SC3383 S,T |
| 5-TR313 | ET-352726 | TR 2SA1392 T,U |
| 5-TR314 | ET-349608 | TR 2SC3383 T,U |
| 5-TR321 | *ET-348831 | TR 2SC2911 S,T |
| 5-TR322 | *ET-348829 | TR 2SA1209 S,T |
| 5-TR341 | ET-356336 | TR DTA114ES |
| 5-TR342 | ET-356336 | TR DTA114ES |
| 5-TR343 | ET-356336 | TR DTA114ES |
| 5-TR344 | ET-356336 | TR DTA114ES |
| 5-TR345 | ET-354414 | TR DTC144ES |
| 5-TR351 | ET-353897 | TR DTC114ES |
| 5-TR352 | ET-364060 | TR DTC143ES |
| 5-TR354 | ET-357845 | TR 2SC3242A F,G F05 |
| 5-TR355 | ET-349705 | TR 2SC2320 E,F,G |
| 5-TR356 | ET-353897 | TR DTC114ES |
| 5-TR357 | ET-353897 | TR DTC114ES |
| 5-TR358 | ET-353897 | TR DTC114ES |
| 5-TR359 | ET-353897 | TR DTC114ES |
| 5-TR360 | ET-349705 | TR 2SC2320 E,F,G |
| 5-TR361 | ET-357845 | TR 2SC3242A F,G F05 |
| 5-TR371 | ET-308977 | TR 2SC2274K F F05 |
| 5-TR372 | ET-308977 | TR 2SC2274K F F05 |
| 5-TR373 | ET-308977 | TR 2SC2274K F F05 |
| 5-TR374 | ET-308977 | TR 2SC2274K F F05 |
| 5-T371 | EO-370000 | COIL OSC 1 25-2755-22 |
| 5-T372 | EO-370002 | COIL OSC 1 25-2760-21 |
| 5-VR101 | EV-330863 | R S-FIX H SR19R 3P0.15W333 |
| 5-VR102 | EV-338462 | R S-FIX H V8K4-11(1S) 3P 503 |
| 5-VR121 | EV-370006 | VR ROTARY T2094 2 THROW 503MN |
| 5-VR122 | EV-370005 | VR ROTARY T2094 2 THROW A503 |
| 5-VR151 | EV-337993 | R S-FIX H RVF8P01 3P 203 |
| 5-VR241 | EV-357837 | R S-FIX H V8K4-11(1S) 3P 104 |
| 5-VR351 | EV-337992 | R S-FIX H RVF8P01 3P 502 |
| 5-VR352 | EV-344109 | R S-FIX H RVF8P01 3P 102 |
| 5-VR353 | EV-370008 | VR ROTARY T2094 B202 |
| 5-VR371 | EV-330531 | R S-FIX H TM8KV2-1S 3P0.50W503 |
| 5-F1A | *EF-601942 | FUSE SEMKO T 250V 630MA (U.E.S) |
| 5-F1B | *EF-341263 | FUSE GGS A 125V 1.25A (C.A) |
| 5-F1C | *EF-358974 | FUSE BET T 250V 630MA (B) |

| Ref. No. | Part No. | Description |
|---|---|---|
| 5-F2A | *EF-601942 | FUSE SEMKO T 250V 630MA [U,E,S] |
| 5-F2B | *EF-341263 | FUSE GGS A 125V 1.25A [C,A] |
| 5-F2C | *EF-358974 | FUSE BET T 250V 630MA [B] |
| 5-F3A | *EF-602550 | FUSE SEMKO T 250V 1.25A [U,E,S] |
| 5-F3B | *EF-308847 | FUSE TSC 125V 1.60A [C,A] |
| 5-F3C | *EF-359007 | FUSE BET T 250V 1.25A [B] |
| 5-F4A | *EF-602550 | FUSE SEMKO T 250V 1.25A [U,E,S] |
| 5-F4B | *EF-308847 | FUSE TSC 125V 1.60A [C,A] |
| 5-F4C | *EF-359007 | FUSE BET T 250V 1.25A [B] |

## 6. SYSCON (A) P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 6-C44 | EC-201645 | C EC V CUT AS1 222M 6.3DC |
| 6-D1 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D2 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D3 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D4 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D5 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D6 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D7 | ED-331617 | D ZENER H HZ6 A3 |
| 6-D8 | ED-338332 | D ZENER H HZ4 A2 |
| 6-D9 | ED-331626 | D ZENER H HZ3 B2 |
| 6-D10 | ED-346611 | D ZENER H HZ11 B3 |
| 6-D11 | ED-346609 | D ZENER H HZ9 C1 |
| 6-D12 | ED-319167 | D ZENER H HZ6 C3 |
| 6-D13 | ED-324014 | D ZENER H HZ11 B1 |
| 6-D14 | ED-324014 | D ZENER H HZ11 B1 |
| 6-D15 | ED-319167 | D ZENER H HZ6 C3 |
| 6-D16 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D17 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D18 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D19 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D20 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D21 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D22 | ED-349662 | D SILICON DS135E-FA6 F10 100/1.0A |
| 6-D23 | ED-349662 | D SILICON DS135E-FA6 F10 100/1.0A |
| 6-D24 | ED-338559 | D ZENER H HZ6 B1 |
| 6-D25 | ED-306010 | D ZENER H HZ6 A2 |
| 6-D26 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D27 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D28 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D29 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D30 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D31 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D32 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D33 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D34 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-D35 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 6-IB1 | EH-370020 | COMP R RKC12DS103J |
| 6-IB2 | EH-366604 | COMP R RKC7B 473J |
| 6-IB3 | EH-370021 | COMP R RKC14DS682J |
| 6-IC1 | EI-370011 | IC HD6305 X0A74P CUSTOM |
| 6-IC2 | EI-336761 | IC LA6458S |
| 6-IC3 | EI-336761 | IC LA6458S |
| 6-IC4 | EI-355602 | IC LB1649 |
| 6-IC5 | EI-337008 | IC LC7800 |
| 6-IC6 | EI-331275 | IC TC9142P [GX-8 ONLY] |
| 6-IC7 | EI-336761 | IC LA6458S [GX-8 ONLY] |
| 6-IC8 | EI-336992 | IC UPC1043C [GX-6 ONLY] |
| 6-TR1 | ET-350795 | TR 2SC3399 F05 |
| 6-TR2 | ET-350795 | TR 2SC3399 F05 |
| 6-TR3 | ET-349366 | TR 2SC3402 F05 |
| 6-TR4 | ET-354415 | TR DTA144ES |
| 6-TR5 | ET-354415 | TR DTA144ES |
| 6-TR6 | ET-371075 | TR DTA124XS |
| 6-TR7 | ET-371075 | TR DTA124XS |
| 6-TR8 | ET-350795 | TR 2SC3399 F05 |
| 6-TR9 | ET-354415 | TR DTA144ES |
| 6-TR10 | ET-350795 | TR 2SC3399 F05 |
| 6-TR11 | ET-350795 | TR 2SC3399 F05 |
| 6-TR12 | ET-350795 | TR 2SC3399 F05 |
| 6-TR14 | ET-350795 | TR 2SC3399 F05 |
| 6-TR15 | ET-347961 | TR 2SD1012-V G F05 |
| 6-TR16 | ET-347961 | TR 2SD1012-V G F05 |
| 6-TR17 | ET-347961 | TR 2SD1012-V G F05 |
| 6-TR18 | ET-347961 | TR 2SD1012-V G F05 |
| 6-TR19 | ET-347961 | TR 2SD1012-V G F05 |
| 6-TR20 | ET-354415 | TR DTA144ES |
| 6-TR21 | ET-357845 | TR 2SC3242A F,G F05 |
| 6-TR22 | ET-308141 | TR 2SC2603 G F05 |
| 6-TR23 | ET-350795 | TR 2SC3399 F05 |
| 6-TR24 | ET-350795 | TR 2SC3399 F05 |
| 6-TR25 | ET-350795 | TR 2SC3399 F05 |
| 6-TR26 | ET-308141 | TR 2SC2603 G F05 [GX-8 ONLY] |
| 6-TR27 | ET-308141 | TR 2SC2603 G F05 [GX-6 ONLY] |
| 6-TR28 | ET-308141 | TR 2SC2603 G F05 |
| 6-TR29 | ET-308141 | TR 2SC2603 G F05 |
| 6-TR30 | ET-349366 | TR 2SC3402 F05 |
| 6-TR31 | ET-349366 | TR 2SC3402 F05 |
| 6-TR32 | ET-349366 | TR 2SC3402 F05 |
| 6-TR33 | ET-349366 | TR 2SC3402 F05 |
| 6-TR34 | ET-308472 | TR 2SA1115 E,F,G F05 |
| 6-TR35 | ET-308472 | TR 2SA1115 E,F,G F05 |
| 6-TR36 | *ET-370913 | TR 2SD1508 |
| 6-TR37 | *ET-357845 | TR 2SC3242A F,G F05 |
| 6-TR38 | *ET-354841 | TR 2SA1282A F,G F05 |
| 6-TR39 | ET-308141 | TR 2SC2603 G F05 |
| 6-TR40 | ET-308472 | TR 2SA1115 E,F,G F05 |
| 6-TR41 | ET-308472 | TR 2SA1115 E,F,G F05 |
| 6-VR2 | EV-337996 | R S-FIX H RVF8P01 3P 104 |
| 6-VR3 | EV-337992 | R S-FIX H RVF8P01 3P 502 |
| 6-VR4 | EV-337996 | R S-FIX H RVF8P01 3P 104 |
| 6-VR5 | EV-337992 | R S-FIX H RVF8P01 3P 502 |
| 6-X1 | EI-349372 | OSC CE CSA4.00MG 4MHZ |
| 6-X2 | EI-337123 | OSC X'TAL 4.07010MHZ [GX-8 ONLY] |



## 7. SYSCON (B) P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 7-D201 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 7-D202 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 7-D203 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 7-D204 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 7-D205 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 7-IB201 | EH-367224 | COMP R RKC* 9B12 473J |
| 7-IB202 | EH-370077 | COMP R RKC* 9B14 473J |
| 7-IB203 | EH-370076 | COMP R RKC* 9B11 473J |
| 7-IC201 | EI-370012 | IC BA6880SA |
| 7-IC202 | EI-343417 | IC LB1294 |
| 7-IC203 | EI-343417 | IC LB1294 |
| 7-IC204 | EI-343417 | IC LB1294 |
| 7-IN201 | EM-370015 | IND FL BG-383ZK |
| 7-TR201 | ET-370013 | TR 2SA874 Q,R |
| 7-TR202 | ET-370074 | TR DTA123JF |
| 7-TR203 | ET-370017 | TR DTA114YF |
| 7-TR204 | ET-370017 | TR DTA114YF |
| 7-TR205 | ET-370017 | TR DTA114YF |
| 7-TR206 | ET-370017 | TR DTA114YF |
| 7-TR207 | ET-370017 | TR DTA114YF |
| 7-TR208 | ET-370017 | TR DTA114YF |
| 7-TR209 | ET-370074 | TR DTA123JF |
| 7-TR210 | ET-370017 | TR DTA114YF |
| 7-TS201 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS202 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS203 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS204 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS205 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS206 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS207 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS208 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS209 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS210 | ES-349474 | SW TACT SKHHAM004A |
| 7-TS211 | ES-349474 | SW TACT SKHHAM004A |
| 7-VR1 | EV-330531 | R S-FIX H TM8KV2-1S 3P0.50W503 [GX-6 ONLY] |

## 8. MOTOR P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 8-D5 | ED-338561 | D ZENER H HZ2FA F10 B2 |
| 8-IC1 | EI-201940 | IC NJM4558S |
| 8-IC2 | EI-201940 | IC NJM4558S |
| 8-IC3 | EI-337568 | HALL ELEMENT DHD-H070 |
| 8-IC4 | EI-337568 | HALL ELEMENT DHD-H070 |
| 8-TR1 | ET-337011 | TR 2SC2274K D,E F05 |
| 8-TR2 | ET-337012 | TR 2SA984K D,E |
| 8-TR3 | ET-337011 | TR 2SC2274K D,E F05 |
| 8-TR4 | ET-337012 | TR 2SA984K D,E |
| 8-VR1 | EV-464253 | R S-FIX V V8K1-1 3P 202 |
| 8-VR2 | EV-464253 | R S-FIX V V8K1-1 3P 202 |

## 9. POWER SW P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 9-C501 | *EC-320548 | C CE V F 103Z 250AC [U,C,A] |
| 9-C501A | *EC-338411 | C CE V FZ 103P 400AC [E,B,S] |
| 9-SW501 | *ES-337902 | SW PUSH SDLD1P 01-1 |

## 10. SYSCON (C) P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 10-SW301 | ES-370933 | SW SLIDE SSSU 01-03N |

## 11. VR P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 11-VR201 | EV-370007 | VR ROTARY T2094 2 THROW B103 |

## 12. HEADPHONE P.C BOARD

| Ref. No. | Part No. | Description |
|---|---|---|
| 12-J221A | EJ-369995 | PHONE J 3P HLJ0540-410 6.3 GP |
| 12-J221B | EJ-348846 | PHONE J 3P HLJ0540-010 6.3 |

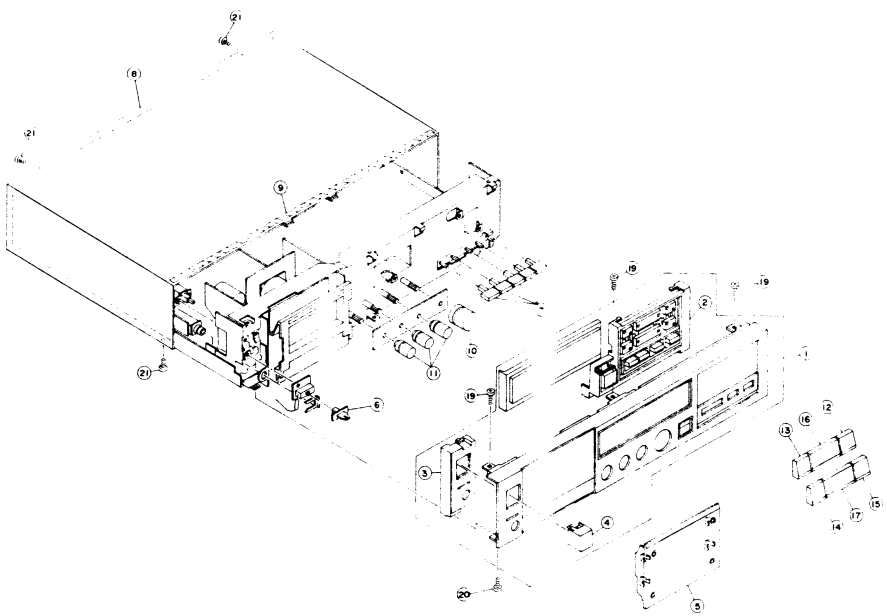
## 13. DBX P.C BOARD (GX-8 ONLY)

| Ref. No. | Part No. | Description |
|---|---|---|
| 13-D401 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 13-D441 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 13-IC401 | EI-354822 | IC AN6291 |
| 13-IC402 | EI-362588 | IC M5238P |
| 13-IC403 | EI-354822 | IC AN6291 |
| 13-IC404 | EI-362588 | IC M5238P |
| 13-TR401 | ET-349081 | TR 2SC3383 S,T |
| 13-TR441 | ET-349081 | TR 2SC3383 S,T |
| 13-TR442 | ET-349081 | TR 2SC3383 S,T |
| 13-TR491 | ET-349081 | TR 2SC3383 S,T |
| 13-TR492 | ET-349081 | TR 2SC3383 S,T |
| 13-VR401 | EV-366846 | R S-FIX V RVR8W01 3P 202 |
| 13-VR441 | EV-366846 | R S-FIX V RVR8W01 3P 202 |

## 14. ASSEMBLY BLOCK

| Ref. No. | Part No. | Description |
|---|---|---|
| 14-1 | ZS-313796 | ST BID40X06STL CMT [POWER TRANS FIX] |
| 14-2 | ZW-241200 | RV NYL30X080 BL [U] |
| 14-3A | SP-369963F | PANEL REAR GX-8 (U) |
| 14-3B | SP-369963H | PANEL REAR GX-8 (C,A) |
| 14-3C | SP-369963J | PANEL REAR GX-8 (E,V) |
| 14-3D | SP-369963K | PANEL REAR GX-8 (B,S) |
| 14-3E | SP-369963A | PANEL REAR GX-6 (U) |
| 14-3F | SP-369963C | PANEL REAR GX-6 (C,A) |
| 14-3G | BD-369963D | PANEL REAR GX-6 (E,V) |
| 14-3H | SP-369963E | PANEL REAR GX-6 (B,S) |
| 14-4 | ZS-447761 | T2BR30X06STL BNI [REAR PANEL FIX] |
| 14-5A | *EW-374894 | AC CORD 2C VM-0129A,VFF U,T [U] |
| 14-5B | *EW-352237 | AC CORD 2 CORES KP-8,SPT-2 UC [C,A] |
| 14-5C | *EW-336923 | AC CORD 2C KP-419C,LTCE-2F EV [E] |
| 14-5D | *EW-346249 | AC CORD 2 CORES LCFL2X0.75 B [B] |
| 14-5E | *EW-347898 | AC CORD 2 CORES VM-0436,LCFL S [S] |
| 14-6 | *EZ-631945 | STRAIN RELIEF SR-4N-4 |
| 14-7 | SA-B369350A1 | FOOT PART |
| 14-8 | ZS-354055 | ST BR30X12STL CMT [FOOT FIX] |
| 14-T501A | *BT-369965 | TRANS POWER T2094(U) |
| 14-T501B | *BT-369968 | TRANS POWER T2094(A,C) |
| 14-T501C | *BT-369969 | TRANS POWER T2094 (E) |
| 14-T501D | *BT-369970 | TRANS POWER T2094(B,S) |
| 14-SW502 | *ES-359606 | SW SELECTOR 8T 41S0454 01-4 [U] |

FINAL ASSEMBLY BLOCK



## 15. FINAL ASSEMBLY BLOCK

| Ref. No. | Part No. | Description |
|---|---|---|
| 15-1A | BD-T2094A040A | PANEL FRONT BLK GX-8-S |
| 15-1A-B | BD-T2094A040B | PANEL FRONT BLK GX-8-B |
| 15-1B | BD-T2094A040C | PANEL FRONT BLK GX-6-S |
| 15-1B-B | BD-T2094A040D | PANEL FRONT BLK GX-6-B |
| 15-2 | SK-369362A | KNOB OPERATE |
| 15-2-B | SK-369362B | KNOB OPERATE-B |
| 15-3 | SE-369363A | ESCUTCHEON SIDE |
| 15-3-B | SE-369363B | ESCUTCHEON SIDE-B |
| 15-4 | SK-343017G | KNOB POWER (4) |
| 15-4-B | SK-343017F | KNOB POWER-B |
| 15-5A | BD-T2094A050C | LID PANEL BLK GX-8-S |
| 15-5A-B | BD-T2094A050D | LID PANEL BLK GX-8-B |
| 15-5B | BD-T2094A050A | LID PANEL BLK GX-6-S |
| 15-5B-B | BD-T2094A050B | LID PANEL BLK GX-6-B |
| 15-6 | SK-358066D | KNOB SLIDE(3) |
| 15-6-B | SK-358066B | KNOB SLIDE-B |
| 15-7 | SK-369357A | KNOB PUSH |
| 15-7-B | SK-369357B | KNOB PUSH-B |
| 15-8 | SP-343024C | COVER UPPER (3) |
| 15-8-B | SP-343024D | COVER UPPER (4) |
| 15-9 | SZ-371657 | CUSHION COVER (UPPER) |
| 15-10 | SK-369359A | KNOB REC |
| 15-10-B | SK-369359B | KNOB REC B |
| 15-11 | SK-B370288X1 | KNOB VR PART |
| 15-11-B | SK-B370288X2 | KNOB VR-B PART |
| 15-12 | SK-369355A | KNOB FF |
| 15-12-B | SK-369355B | KNOB FF-B |
| 15-13 | SK-369355C | KNOB REW |
| 15-13-B | SK-369355D | KNOB REW-B |
| 15-14 | SK-369355E | KNOB PAUSE |
| 15-14-B | SK-369355F | KNOB PAUSE-B |
| 15-15 | SK-369355G | KNOB MUTE |
| 15-15-B | SK-369355H | KNOB MUTE-B |
| 15-16 | SK-369355J | KNOB PLAY |
| 15-16-B | SK-369355K | KNOB PLAY-B |
| 15-17 | SK-369355L | KNOB STOP |
| 15-17-B | SK-369355M | KNOB STOP-B |
| 15-18X | AX-356999 | CORD OFC NI-P |
| 15-19 | ZS-320906 | ST BR30X06STL CMT |
| 15-20 | ZS-354459 | ST CTS30X06STL NI3 |
| 15-21 | ZS-447761 | T2BR30X06STL BNI |

**Note:** SYMBOL FOR COLOR VARIATION
NON: SILVER
B: BLACK



# INDEX


| Part No. | Ref. No. | Part No. | Ref. No. | Part No. | Ref. No. | Part No. | Ref. No. |
|---|---|---|---|---|---|---|---|
| AX-356999 | 15-18X | ED-301911 | 5-D351 | EF-308847 | 5-F4B | EO-369998 | 5-L241 |
| BA-T2094A020A | 4-1A | ED-301911 | 5-D352 | EF-341263 | 32 | EO-369999 | 5-L242 |
| BA-T2094A020B | 4-1B | ED-302295 | 28 | EF-341263 | 5-F1B | EO-370000 | 5-T371 |
| BA-T2094A030A | 4-2A | ED-302295 | 5-D321 | EF-341263 | 5-F2B | EO-370002 | 5-T372 |
| BA-T2094A030B | 4-2B | ED-302295 | 5-D322 | EF-358974 | 31 | ER-200926 | 58 |
| BA-T2094A030C | 4-2C | ED-306010 | 24 | EF-358974 | 5-F1C | ER-200926 | 5-FR351 |
| BA-T2094A030D | 4-2D | ED-306010 | 5-D311 | EF-358974 | 5-F2C | ER-200926 | 5-FR352 |
| BB-T2047A020D | 2-1 | ED-306010 | 5-D312 | EF-359007 | 30 | ER-318647 | 57 |
| BD-B365352-A | 2-19 | ED-306010 | 6-D25 | EF-359007 | 5-F3C | ER-318647 | 5-FR301 |
| BD-T2094A040A | 15-1A | ED-319167 | 27 | EF-359007 | 5-F4C | ER-318647 | 5-FR302 |
| BD-T2094A040B | 15-1A-B | ED-319167 | 6-D12 | EF-601942 | 34 | ER-318647 | 5-FR311 |
| BD-T2094A040C | 15-1B | ED-319167 | 6-D15 | EF-601942 | 5-F1A | ER-318647 | 5-FR312 |
| BD-T2094A040D | 15-1B-B | ED-324014 | 19 | EF-601942 | 5-F2A | ES-336990 | 61 |
| BD-T2094A050C | 15-5A | ED-324014 | 6-D13 | EF-602550 | 33 | ES-336990 | 2-SW901 |
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# ABBREVIATIONS FOR SERVICE MANUAL (CASSETTE)

| Abbreviation | Explanation | Abbreviation | Explanation |
|---|---|---|---|
| AC | Alternating Current | MICOM | MIcroCOMputer |
| A/D | Analog Digital | MIN | MINute |
| AF | Auto Fader | MML | Maximum Modulation Level |
| A.M | Auto Mute | MOL | Maximum Output Level |
| AMP | AMPlifier | MPX | Multi Plex |
| AR | Anti Recording | NC | Not Connected (No Connection) |
| AT BIAS | Auto Tuning BIAS | NFB | Negative Feed Back |
| ATT | ATTenuator | NORM | NORMal |
| BAL | BALance | NR | Noise Reduction |
| BEF | Band Elimination Filter | OSC | OSCillator (OSCillation) |
| BSS | Blank Search System | P | Pulse |
| BSPS | Blank Skip Play System | PB | Play Back |
| CAP M | CAPsTan Motor | QMSS | Quick Memory Search System |
| CH | CHannel | QR | Quick Reverse |
| COMP | COMParator | R CH | Right CHannel |
| CONT | CONTinuance | REC | RECord (RECording) |
| CRLP | Computer Recording Level Processing | REV | REVerse |
| CS | Chip Select | ROT | ROTation |
| D/A | Digital Analog | REW | REWind |
| DC | Direct Current | SEC | SECond |
| DET | DETector | SELE | SELEctor |
| DISCRI | DISCRIminator | SENS | SENSitivity |
| DUB | DUBbing | SEPP | Single Ended Push Pull |
| EQ | EQualizer | SIG | SIGnal |
| FF(or F.FWD) | Fast Forward | SPECT | SPECTrum |
| FLD | FLuorescent Display | STD | STanDard |
| FREQ | FREQuency | SW | SWitch |
| FWD | ForWarD | SYSCON | SYStem CONtrol |
| GND | GrouND | TP | Test Point |
| H | High | TRIG | TRIGa |
| HPF | High Pass Filter | VCA | Voltage Control Attenuator |
| IND | INDicator | VOL | VOLume |
| IPLS | Instant Program Location System | VOLT | VOLTage |
| L | Low | VR | Variable Resistor |
| L CH | Left CHannel | X'TAL | cysTAL |
| LED | Light Emitining Diode | X1 | Normal speed |
| MEMO | MEMOry | X2 | Dubble speed |

# AKAI

## MODEL GX-6,8 (GX-73,93)

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IC101
M52440P
PB HEAD
EQ
VR101
PB LEVEL 10K
C109
R110
TR101
70μ : ON
TR102
70μ : ON
R111
+7.5V
PB LEVEL
VR102
IC131 M51143AL
Vcc
LIMITER AMP
SWITCH
Q1
Q2
1/2 Vcc
COMP
F/F(2)
Q5
POWER RESET SEARCH START CONTROL
F/F(1)
Q3
Q4
Vreg
IC 151
HA12090NT
PB AMP
S.S
HLS
AS
LLS
POWER SUPPLY BIAS
B, C CONT
R/P SW
NR OFF
SW1-2
GX-8/GX-93 ONLY
dbx
OFF
ON
SW4-3
GX-6/GX-73 ONLY
R409 to R413
C410 to C413
TR401
LEVEL SENSOR FILTER
NC
RMS
CURRENT SOURCE
TIMING CURRENT
VR401
dbx DECODER
GND
IC 4
TR201
PLAY : ON
TR202
SOURCE : ON
TR203
PLAY : OFF
TR204
SOURCE : OFF
-9.8V
LINE IN
VR121
REC BLANCE CONTROL
VR122
REC LEVEL CONTROL
IC121
M5238L
1/2
FL151
C191
C194
TR191
TR192
MPX FILTER : ON
R197
R198
C192
C193
VR151
dbx REC LEVEL
MPX FILTER
OFF
ON
+7.5V
TR41, D16
POWER OFF DETECTOR
TR39, D15
POWER REGULATOR
+14V
TR40, D17
POWER ON DETECTOR
D28
D18
D31
D30
D21
D19
D29
TR2
REC PAUSE : ON
TR3
REC : OFF
TR9
REC PAUSE : ON
TR4
PLAY : OFF
POWER OFF : ON
TR1
TR10
POWER OFF : ON
TR11
STOP : ON
TR7
SOURCE : ON
TR5
TR6
TR8
SOURCE : OFF
SOURCE : OFF
SOURCE : OFF
TR30
70μ : OFF
TR29
70μ : ON
TR31
CrO2 : ON
TR32
METAL : ON
TR14
METAL : ON
OPERATION BUTTONS and TIMER START SW
OFF
REC
PLAY
FLD DISPLAY
dbx
L
R
IC 5 LC7800
REC PAUSE
PLAY
FF
REW
IPLS
AUTO MUTE
REC CANCEL
STOP/EJECT
LOADING SW
COUNTER RESET
COUNTER MODE
KEY DATA OUT
DIGIT 3
DIGIT 2
DIGIT 1
DIGIT 0
ANTI REC
METAL
IC 1 HD6305
DIGIT 0
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DIGIT 3
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REEL PULSE(R)
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OSC
SOURCE MUTE
REEL CONTROL (V)
REEL CONTROL (R)
REEL CONTROL (F)
COM STOP
EJECT
FIX
FAST
SEARCH
STOP
PLAY
IPLS
RESET
Vss
Vcc
TIMER PLAY
TIMER REC
MONITOR
KEY INPUT
COUNTER
CAM CONTROL
REC
REW
FF
ELAPSED
REMAIN

GX-8 / GX-93 ONLY

R409 to R413
C410 to C413
TR401
LEVEL SENSOR FILTER
IC402 M5238P
IC401 AN6291
VR401 dbx DECODER
CURRENT SOURCE
TIMING CURRENT
RMS
CCA
LOGIC
BIAS
Vcc
GND
NC

TR441 BUFF
R453 to R457
C453 to C456
TR442
LEVEL SENSOR FILTER
IC404 M5238P
IC403 AN6291
VR441 dbx ENCODER

OUTPUT / PHONES CONTROL
VR201
To METER
LINE OUT
HEAD PHONES
POWER REGULATOR
TR221
TR222
D221
D222
+16V
-16V

TR201 PLAY : ON
TR202 SOURCE : ON
TR203 PLAY : OFF
TR204 SOURCE : OFF
-9.8V

VR241 REC LEVEL
IC241 M5238P
TR247, TR248 AMP
L241
EQ
C381
REC HEAD
NORMAL BIAS
VR371

REC PAUSE : ON
TR246
TR241
METAL : ON
Cr02 : ON
TR242
TR245
TR244
TR243
NORMAL : ON

TR361, TR360
POWER REGULATOR
METAL BIAS
Cr02 BIAS
VR352
VR351
VR353
BIAS CONTROL
TR359
TR358
BIAS OSC
TR372
TR373
TR374
E-HEAD
TR354, TR355
POWER REGULATOR
TR371
TR371
TR372

TR351
REC : ON
TR352
REC : OFF
REC PAUSE : ON
TR344
TR343
TR342
TR341
+7.5V
TR356
TR357

TR30
TR29
TR33
70μ : OFF
70μ : ON
TR7
SOURCE : ON
TR31
Cr02 : ON
TR28
R110
METAL : ON
NORMAL : ON
Cr02 : OFF
TR32
TR14
METAL : ON

IC2 1/2 LA6458S
TR15 to TR19
D/A CONVERTER
IC2 2/2 LA6458S
IC3 LA6458S
CAM MOTOR COMPARATOR
IC4 LB1649
TR21 to TR25
CAM MOTOR DRIVE
REEL MOTOR DRIVE

MECHA. BLOCK
70μ / 120μ
METAL
CAM MOTOR
REEL MOTOR
REEL PULSE (L)
REEL PULSE (R)
ANTI REC SW
LOADING SW

GX-8 / GX-93 ONLY
IC7 1/2 LA6458S
IC6 TC9142P
IC7 2/2
X2
CAPSTAN MOTOR CONTROL
CAPSTAN MOTOR FG PULSE

TAPE SPEED
IC8 μPC1043C
VR1
CAPSTAN MOTOR CONTROL
CAPSTAN MOTOR FG PULSE

TR37, D13
POWER REGULATOR
+14V

GX-6, GX-73 ONLY

FAST
SEARCH
STOP
PLAY
IPLS
RESET
Vss
REW
FF
ELAPSED
REMAIN
IPLS
IC1 HD6305

TR34, VR2, VR3
METER LEVEL CONTROL

# GX-8/6
# GX-93/73
# BLOCK DIAGRAM
## NO. 861101A

ポテンション基板
POTENTION PCB M3103D7010

VR901 10k(B)

GX-8/GX-93 MODEL ONLY

dbx基板
dbx PCB T2094A502D

13

J401
L IN
R IN
R OUT
L OUT
VEE
GND
VCC
L IN
R IN
R OUT
L OUT

ヘッドホン基板
HEAD PHONE PCB
T2094A501C

12

J221
WW104

C227

* Measured with Digital voltmeter in DC range at play mode.
* 各電圧は、デジタル電圧計(DCレンジ)で再生時の電圧値を示します。

08

IC1, 2 NJM45585

* VR1, VR2
POTENTION METER
PRE SET VOLTAGE
ポテンショメータ
プリセット電圧調整

FG基板
FG PCB
M310C7130

FG
M901
BLM-310B

R1 4.7k
R2 4.7k
R3 470k
R4 470k
R5 10k
R7 100k
R8 4.7k
R9 4.7k
R10 470k
R11 470k
R12 10k
R14 100k
R17 1k
R18 1k
R19 1k
C1 47/10(M)
C2 47/10(M)
C3 0.01(M)
IC1 1/2
IC2 1/2
IC1 2/2
IC2 2/2
IC3
IC4
TR1 2SC2274K (D,E)
TR2 2SA984K (D,E)
TR3 2SC2274K (D,E)
TR4 2SA984K (D,E)
D5 HZ-2

+9.8V
SLIDER
GND
+14V
-14V
H.IN
GND

IC3
DHD-H070

IC4
DHD-H070

MOTOR PCB M3103C7260
モーター基板

07

シスコン(B)基板
SYSCON(B) PCB T2094A502B

W101
FILAMENT AC BIAS
-24V (NON REG)
DIGIT 0
DIGIT 1
DIGIT 2
DIGIT 3
+5V
GND

W102
COUNTER
h g f e d c b a

W105
KEY INPUT
MONITOR
REC PAUSE
PLAY
FF
REW
IPLS
AUTO MUTE

W106
KEY INPUT
GND
DIGIT 1
REC CANCEL
STOP/EJECT
COUNTER RESET
COUNTER MODE

W103
FLD
NORMAL
CrO2
METAL
B
FILTER
C
ELAPSED
REMAIN
METER IN Lch
METER IN Rch

W104
FLD
dbx
PLAY
REC
REW
FF
IPLS
SOURCE
TAPE
-24V (NON REG)

06

W105
KEY IN
MONITOR
REC PAUSE
PLAY
FF
REW
IPLS
AUTO MUTE

W106
KEY IN
GND
DIGIT 1
REC CANCEL
STOP/EJECT
COUNTER RESET
COUNTER MODE

W103
FLD
NORMAL
CrO2
METAL
B
MPX
C
ELAPSED
REMAIN
METER L
METER R

W102
COUNTER
a b c d e f g h

W101
GND
+5V
DIGIT 0
DIGIT 1
DIGIT 2
DIGIT 3
-24V
FILAMENT BIAS

FG
FG
GND
H.IN
-14V
+14V
GND
SLIDER
+9.8V

P2 GX-93/8 MODEL ONLY
P3 GX-73/6 MODEL ONLY

J4
METER L
GND
METER R

11

OUTPUT/
PHONES
CONTROL

W105
WW102
WW103
VR201b
VR201
10k(B)

VR基板 VR PCB
T2094A501B

シスコン(A)基板
SYSCON(A) PCB T2094A502A

W104
-24V
TAPE
SOURCE
IPLS
FF
REW
REC
PLAY
dbx

P1
ANTI REC
120μ/ 70μ
NC / μ
GND
GND
GND

SW901 ANTI REC
SW902 CrO2 DETECTOR
SW903 METAL DETECTOR

ホルダーリーフスイッチ基板
HOLDER REEF SW PCB
T2029D1050

P5
GND
LOADING SW

SW904
LOADING SW

P7
GND
VEE

D901
SLP-601C
HOUSING LAMP

P6
CAM MOTOR
H
L
L
H
FWD

M903
CAM MOTOR
RF-280S

L1
18μH
REEL

M902

フィルター
FILTER
T2069D

A B C D E F

GX-8/GX-93 MODEL ONLY

dbx基板
dbx PCB T2094A502D

13

J401 / P401

| | | |
|---|---|---|
| L IN | 1 | L IN |
| R IN | 2 | R IN |
| R OUT | 3 | R OUT |
| L OUT | 4 | L OUT |
| VEE | 5 | VEE |
| GND | 6 | GND |
| VCC | 7 | VCC |
| L IN | 8 | L IN |
| R IN | 9 | R IN |
| R OUT | 10 | R OUT |
| L OUT | 11 | L OUT |

05

ヘッドホン基板
HEAD PHONE PCB
T2094A501C

12

J221 / WW104 / W104

C227 0.01(M)

プリアンプ基板
PRE AMP PCB
T2094A501A

P241
- 3 — Lch — REC HEAD H901-2 PR4-5
- 2 — Rch

P101
- 3 — Lch — P.B HEAD H901-1 PR4-5
- 4
- 1 — Rch
- 2

P371
- 1 — ERASE HEAD H902 E51005770
- 2

J101
- Lch — LINE OUT
- Rch
- Lch — LINE IN
- Rch

11

OUTPUT/PHONES CONTROL

W105 / WW102 / W102 / WW103 / W103

VR201b
VR201 10k(B)

VR基板 VR PCB
T2094A501B

パワースイッチ基板
POWER SW PCB
T2094A502E

T901 T2094(U)

| | |
|---|---|
| 1 | BLU 240V |
| 2 | WHT 220V |
| 3 | YLW 120V |
| 4 | BRN 110V |
| 5 | |
| 6 | RED 0V |

SW502

09

SW501
C501 0.01/250AC(Z)

U

AC 110 to 240V 50/60Hz

T901
- J — T2094(J)
- C,A — T2094(C,A)
- E,V — T2094(E,V)
- B,S — T2094(B,S)

09

SW501
C501
J,C,A 0.01/250AC(Z)
E,V,B,S 0.01/400AC(P)

J,C,A,E V,B,S

- J — AC100V 50/60Hz
- C,A — AC120V 60Hz
- E,V — AC220V 50Hz
- S — AC240V 50Hz
- B — AC240V 50Hz

パワースイッチ基板
POWER SW PCB
T2094A502E

W110 (METER GND, MOTOR GND, POD, +14V, GND(±14V), -14V, AC(-24V), MOTOR +14V) → J1
W112 (MPX FILTER, dbx, C, B, SOURCE MUTE, TAPE MUTE, 70μ(PB EQ)) → J3
W111 (BOP, METAL, CrO2, NORMAL, REC MUTE, POWER OFF, OSC CONT) → J2

J4: 1 METER L, 2 GND, 3 METER R

AC (FILAMENT)
AC (FILAMENT)

X-93/8 MODEL ONLY
X-73/6 MODEL ONLY

シスコン(A)基板
SYSCON(A) PCB T2094A502A

10

W107 / WW107

TIMER
- DIGIT 3
- TIMER REC
- TIMER PLAY

SW301: REC / OFF / PLAY

シスコン(C)基板
SYSCON(C) PCB
T2094A502C

P7: 1 GND, 2 VEE
P6: 4 H, 3 L, 2 FWD, 1 REV (CAM MOTOR, REEL MOTOR)
P4: 1 REEL PULSE R, 2 VEE, 3 GND, 4 REEL PULSE L, 5 VEE, 6 GND

D901 SLP-601C
HOUSING LAMP

M903 CAM MOTOR RF-2805

L1 18μH, L2 18μH
REEL MOTOR
M902 RF-510T

PH1 SPI-201-40(B,C)
PH1 SPI-201-40(B,C)

フィルター基板
FILTER PCB
T2069D5040

ディテクター(R)基板
DETECTOR(R) PCB
T2069D5010

ディテクター(L)基板
DETECTOR(L) PCB
T2069D5020

注意：この付された部品は 安全上重要部品です。マーク後の数字は 指定部品以外は使用しないこと
WARNING : INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT : LE INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

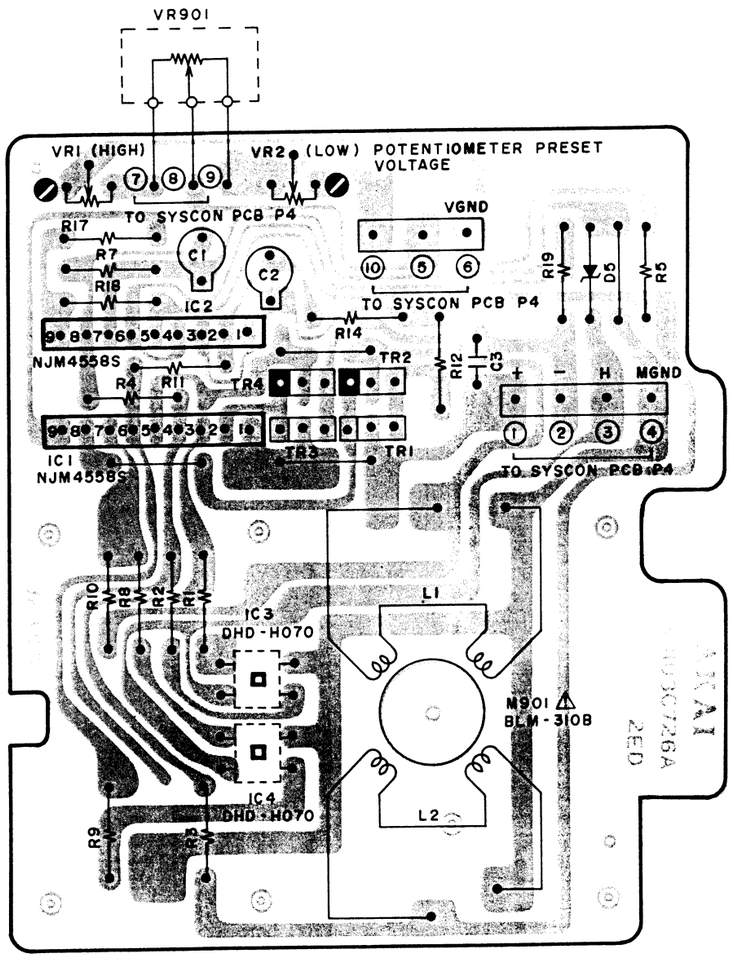
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

備考
C.Rの単位(特に指定された部品以外)
抵抗……Ω 1/4W(J)
コンデンサ……μF 50WV(J)

* GX-93/GX-73 J MODEL ONLY.

# GX-8/GX-6
# GX-93/GX-73
# CONNECTION DIAGRAM

NO. 6-1 861102A2



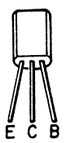

MOTOR PCB M3103C7260(2ED)
モーター基板

= PNP TRANSISTOR

= NPN TRANSISTOR

TR1,3 --- 2SC2274

TR2,4 --- 2SA984

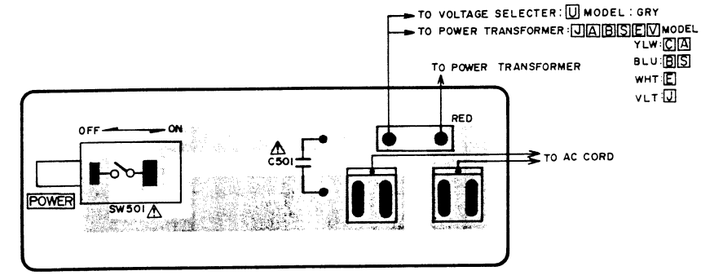



2SC2274
2SA984

注意：⚠の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

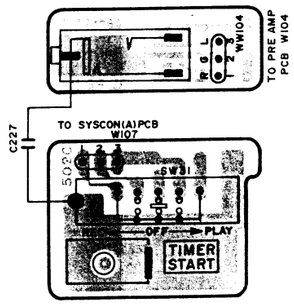
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

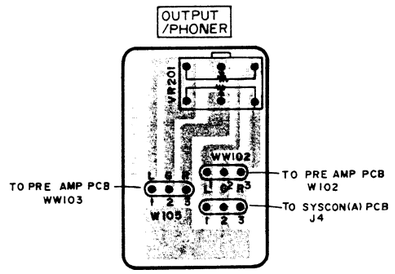



POWER SW PCB
T2094A502E
パワースイッチ基板

ヘッドホン基板
HEAD PHONE PCB
T2094A501C




SYSCON(C) PCB
T2094A502C
シスコン(C)基板

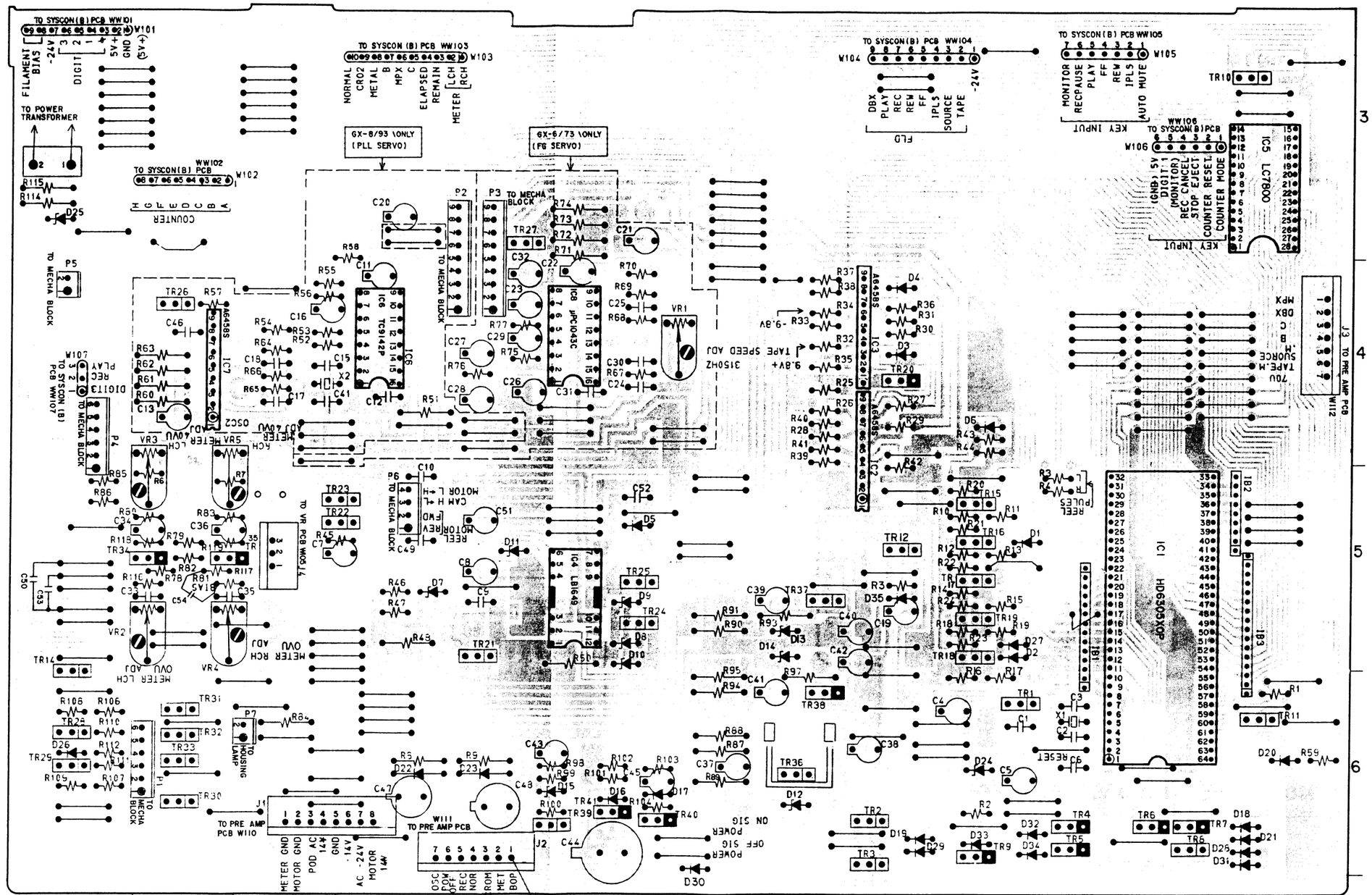



VR PCB
T2094A501B
VR基板

IC1 .....A5
IC2 .....C4
IC3 .....C4
IC4 .....D5
IC5 .....A3
IC6 .....E4
IC7 .....F4
IC8 .....D4

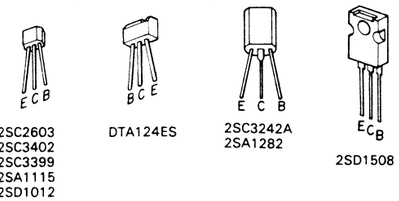
TR1 .....B6
TR2 .....C6
TR3 .....C4
TR4 .....B6
TR5 .....B6
TR6 .....A6
TR7 .....A6
TR8 .....A6
TR9 .....B6
TR10 .....A3
TR11 .....A6
TR12 .....C5
TR14 .....G5
TR15 .....B5
TR16 .....B5
TR17 .....B5
TR18 .....B5
TR19 .....B5
TR20 .....C4
TR21 .....E5
TR22 .....F5
TR23 .....F5
TR24 .....D5
TR25 .....D5
TR26 .....F4
TR27 .....E3
TR28 .....G6
TR29 .....G6
TR30 .....F6
TR31 .....F6
TR32 .....F6
TR33 .....F6
TR34 .....F5
TR35 .....F5
TR36 .....C6
TR37 .....C5
TR38 .....C6
TR39 .....D6
TR40 .....D6
TR41 .....D6

2SC2603 .....TR28,TR29, TR39,TR22
2SC3402 .....TR3,TR30,TR31, TR32,TR33
2SC3399 .....TR1,TR2,TR10, TR11,TR8,TR14, TR23,TR24,TR25
2SA1115 .....TR34,TR35, TR40,TR41
DTA124ES .....TR4,TR5,TR6, TR7,TR9,TR20
2SC3242A .....TR21,TR37
2SA1282 .....TR38
2SD1508 .....TR36
2SD1012 .....TR15,TR16,TR17, TR18,TR19




= NPN TRANSISTOR

= PNP TRANSISTOR




SYSCON (A) PCB T2094A502A
シスコン(A)基板

GX-8/GX-6
GX-93/GX-73

* Measured with Digital voltmeter in DC range at play mode (Metal Tape)
* 各電圧は、デジタル電圧計(DCレンジ)でメタルテープ再生時の電圧値を示します
* (P): PULSE SIGNAL パルス信号

シスコン(A)基板 SYSCON(A) PCB T2094A502A

: B電源 B(POWER SUPPLY) LINE

* GX-93 / GX-73 : [J]MODEL ONLY.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)

備考
C.Rの単位(特に指定された部品以外)
抵抗……Ω1/6W(J)
コンデンサ……μF 50WV(J)

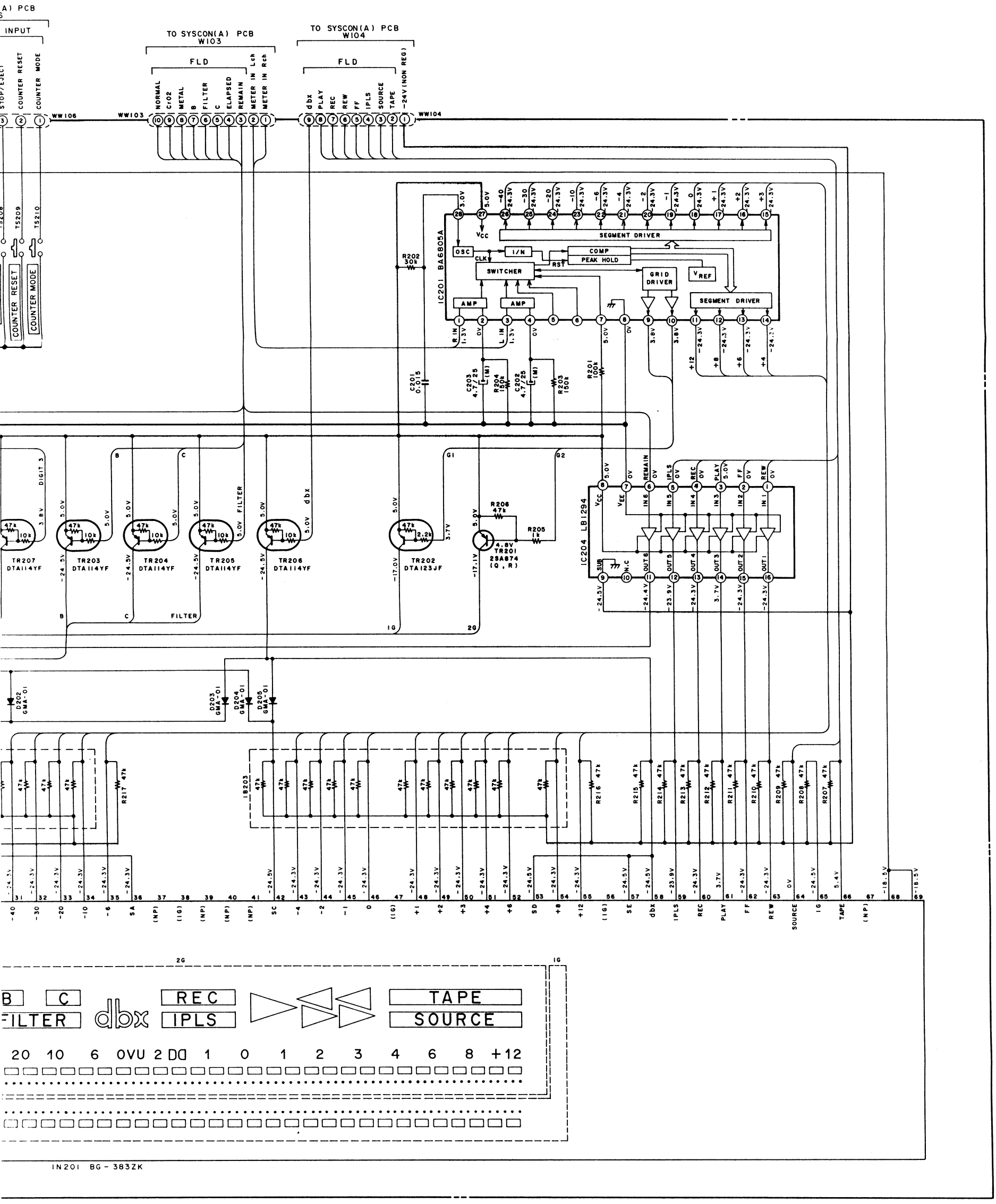
# GX-8/GX-6
# GX-93/GX-73
# SYSTEM CONTROL(A)
# SCHEMATIC DIAGRAM
NO.6-2 861103A3

GX-8 / GX-6
GX-93 / GX-73




SYSCON(B) PCB T2094A502B
シスコン(B)基板

: B電源 B(POWER SUPPLY) LINE

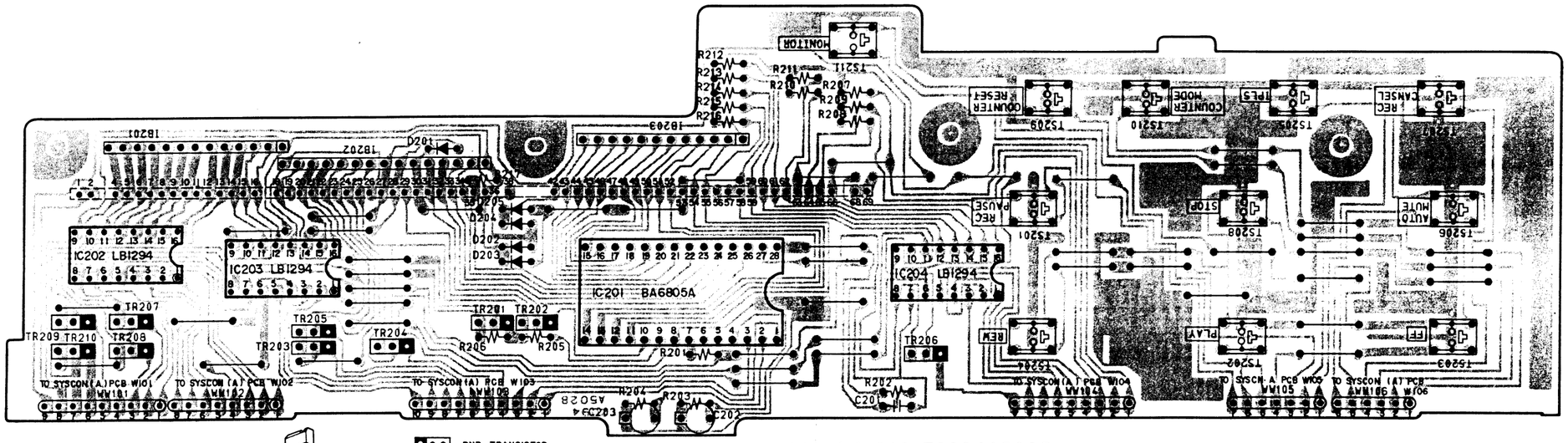



* GX—93 / GX—73 : Ⓙ MODEL ONLY.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)

備考
C. Rの単位(特に指定された部品以外)
抵抗……Ω1/6W(J)
コンデンサ……μF 50WV(J)

# GX-8/GX-6
# GX-93/GX-73
# SYSTEM CONTROL(B)
# SCHEMATIC DIAGRAM
NO. 6-3 861104A 3



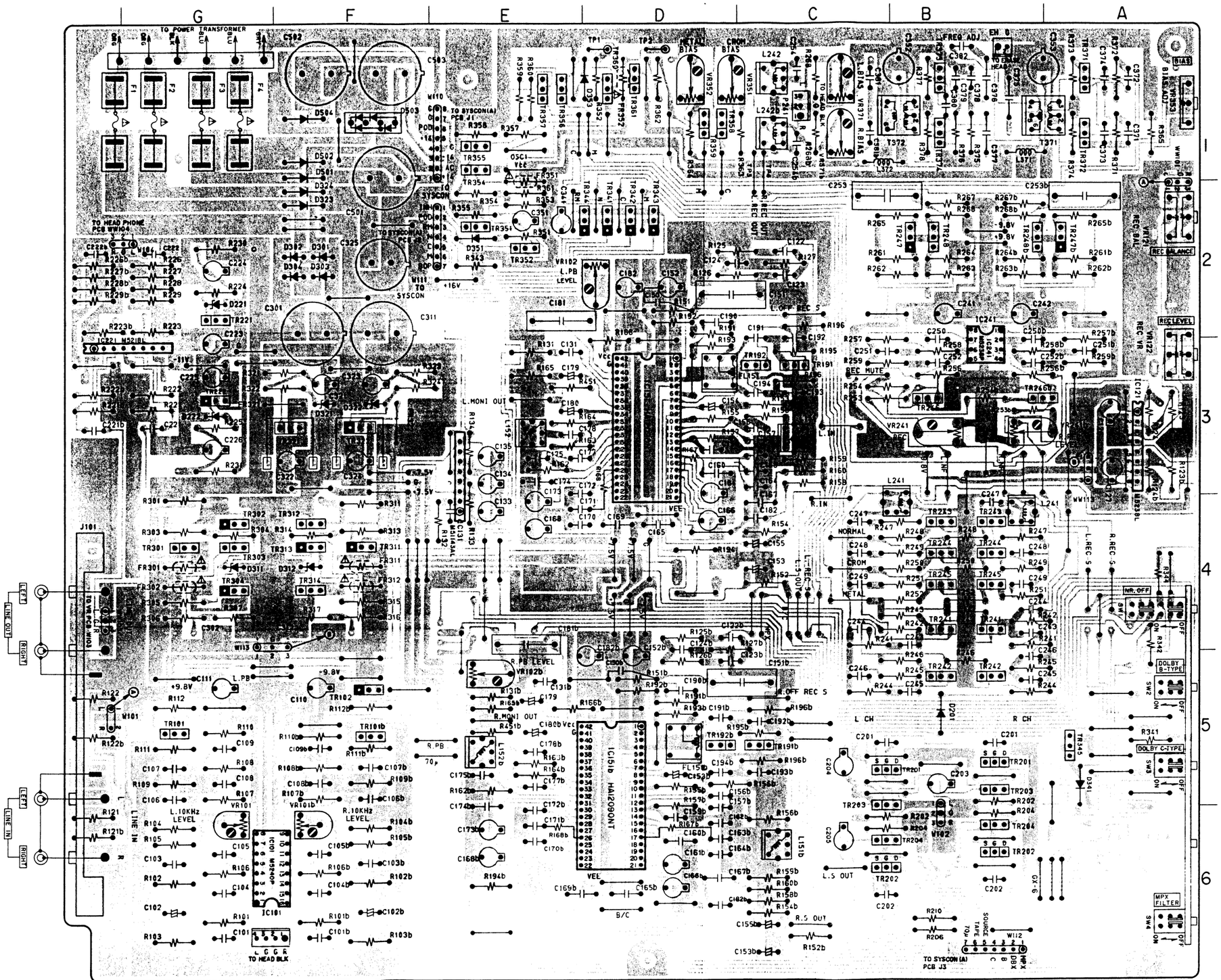

PNP TRANSISTOR
B

DTA114YF.....TR210,TR207
TR208,TR203
TR204,TR205
TR206
DTA123JF.....TR202,TR209
2SA874.....TR201

B C E

DTA114YF
DTA123JF
2SA874

SYSCON(B) PCB T2094A502B
シスコン(B)基板


G
F
E
D
C
B
A
1
2
3
4
5
6
TO POWER TRANSFORMER
F1
F2
F3
F4
C502
C503
D504
D503
D502
D501
D324
D323
TO HEAD PHONE PCB WW104
TO SYSCON(A) PCB J1
TO SYSCON
W110
W111
+16V
C501
C325
C301
C311
D221
TR221
IC221 M52181
C223
C224
C225
C226
R223b
R223
R224
R225
R226
R227
R228
R229
C228b
C228
R228b
R227b
R226b
C221b
C22
R221b
R121b
R121
R122b
R122
W101
LINE IN
L
R
LEFT
RIGHT
LINE OUT
LINE TN
W113
J101
TR301
TR302
TR303
TR304
TR311
TR312
TR313
TR314
D311
D312
FR301
FR302
FR311
FR312
R301
R303
R304
R311
R313
R314
C302
C315
C316
C111
L.PB
+9.8V
C110
TR102
R112
R112b
TR101
TR101b
R110
R110b
C109
C109b
R108
R108b
C108
C108b
R107
R107b
VR101
VR101b
L.10KHz LEVEL
R.10KHz LEVEL
R111
R111b
C107
C107b
R109
R109b
C106
C106b
R104
R104b
R105
R105b
C105
C105b
C103
C103b
R106
R106b
R102
R102b
C104
C104b
C102
C102b
R101
R101b
R103
R103b
C101
IC101 M5240P
L G G R
TO HEAD BLK
TP1
TP2
TR360
FR352
R360
R359
R357
R358
R356
TR355
OSC1
Y351
FR351
TR354
R354
R355
C351
TR353
TR356
D351
R350
R349
TR352
R353
R352
D353
R362
R363
R364
R365
METAL BIAS
CROM BIAS
VR352
VR351
L242
L241
C354
R366
TO DRUM HEAD
FREQ ADJ
EM 0
C362
C377
C378
C376
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C201
R.BIAS VR371
L.BIAS VR372
TO HEAD BLK
REC OUT
REC IN
L.OFF REC S
R.OFF REC S
L.MONI OUT
R.MONI OUT
L.PB LEVEL
R.PB LEVEL
VR102
VR102b
R.PB
70μ
IC151b HA12090NT
VEE
B/C
L.IN
R.IN
L.REC S
R.REC S
L.S OUT
R.S OUT
L CH
R CH
REC MUTE
NORMAL
CROM
METAL
REC BALANCE
REC LEVEL
VR123
VR122
REC VR
WR OFF
SW1
SW2
SW3
SW4
DOLBY B-TYPE
DOLBY C-TYPE
MPX FILTER
R344
R342
R341
D341
TR345
TR343
TR342
TR341
TR344
TR340
TR339
TR338
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TR105
TR104
TR103
TR102
TR101
TO SYSCON (A) PCB J3
SOURCE TAPE
TO/P
DBX
MPX
W112
W114
W115
W116
W117
W118
W119
W120
W121
W122
W123
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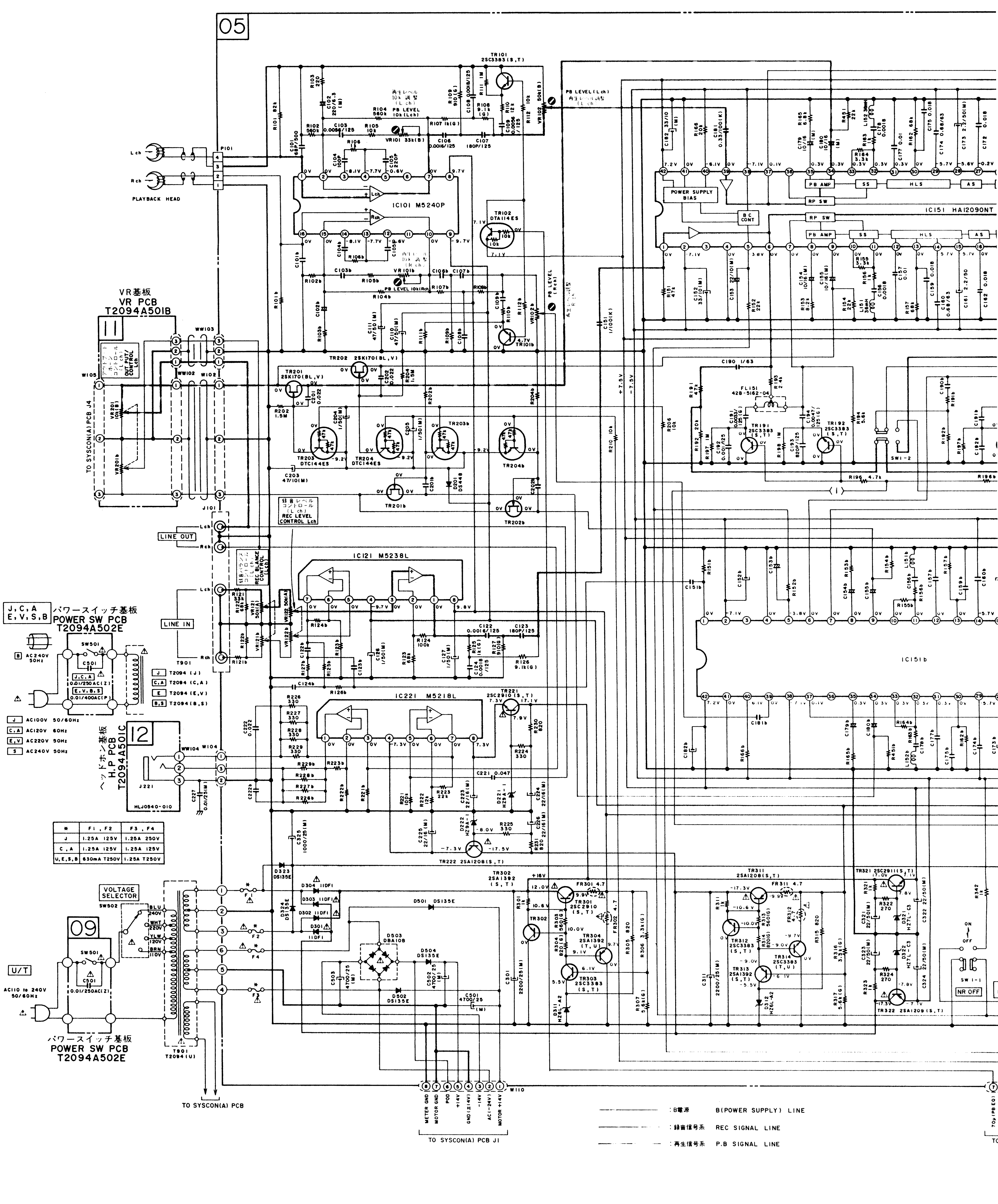
W153

GX-6/GX-73



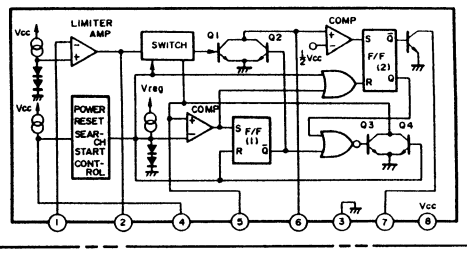
05
TR101 2SC3383(S,T)
PB LEVEL 10k(Lch)
再生レベル 10k 調整 (L ch)
PB LEVEL 10k(Rch)
VR101 33k(B)
VR102 50k(B)
PB LEVEL (Lch)
PB LEVEL (Rch)
IC101 M5240P
TR102 DTA114ES
PLAYBACK HEAD
Lch
Rch
P101
IC151 HA12090NT
POWER SUPPLY BIAS
BC CONT
PB AMP
RP SW
SS
HLS
AS
VR基板
VR PCB
T2094A501B
11
アウトプット・ボリューム・コントロール (L ch)
OUT PUT/ CONTROL Lch
WW103
WW102
W102
W105
TO SYSCON(A) PCB J4
VR201 10k(B)
VR201b
TR201 2SK170(BL,V)
TR202 2SK170(BL,V)
TR203 DTC144ES
TR204 DTC144ES
TR203b
TR204b
TR201b
TR202b
D201 DS448
FL151 428-5162-04
TR191 2SC3383 (S,T)
TR192 2SC3383 (S,T)
SW1-2
J101
LINE OUT
LINE IN
録音レベル コントロール (L ch) REC LEVEL CONTROL Lch
録音バランス コントロール (L ch) REC BLANCE CONTROL (Lch)
IC121 M5238L
IC151b
J,C,A E,V,S,B
パワースイッチ基板
POWER SW PCB
T2094A502E
SW501
C501
J,C,A 0.01/250AC(Z)
E,V,B,S 0.01/400AC(P)
B AC240V 50Hz
J AC100V 50/60Hz
C,A AC120V 60Hz
E,V AC220V 50Hz
S AC240V 50Hz
T901
J T2094 (J)
C,A T2094 (C,A)
E T2094 (E,V)
B,S T2094 (B,S)
IC221 M5218L
TR221 2SC2910 (S,T)
TR222 2SA1208(S,T)
12
ヘッドホン基板
H.P PCB
T2094A501C
WW104 W104
J221
HLJ0540-010
VOLTAGE SELECTOR
SW502
BLU 240V
WHT 220V
YLW 120V
BRN 110V
09
U/T
AC110 to 240V 50/60Hz
パワースイッチ基板
POWER SW PCB
T2094A502E
T901 T2094(U)
TO SYSCON(A) PCB
D301 11DF1
D302 11DF1
D303 11DF1
D304 11DF1
D323 DS135E
D324 DS135E
D501 DS135E
D502 DS135E
D503 DBA10B
D504 DS135E
TR301 2SC2910 (S,T)
TR302 2SA1392 (S,T)
TR303 2SC3383 (S,T)
TR304 2SA1392 (T,U)
D311 HZ6L-A2
TR311 2SA1208(S,T)
TR312 2SC3383 (S,T)
TR313 2SA1392 (S,T)
TR314 2SC3383 (T,U)
D312 HZ6L-A2
TR321 2SC2911(S,T)
TR322 2SA1209(S,T)
D321 HZ7L-C3
D322 HZ7L-C3
SW 1-1
ON
OFF
NR OFF
W110
METER GND
MOTOR GND
POD
+14V
GND(±14V)
-14V
AC(-24V)
MOTOR +14V
TO SYSCON(A) PCB J1
:B電源 B(POWER SUPPLY) LINE
:録音信号系 REC SIGNAL LINE
:再生信号系 P.B SIGNAL LINE


| * | F1, F2 | F3, F4 |
|---|---|---|
| J | 1.25A 125V | 1.25A 250V |
| C, A | 1.25A 125V | 1.25A 125V |
| U, E, S, B | 630mA T250V | 1.25A T250V |

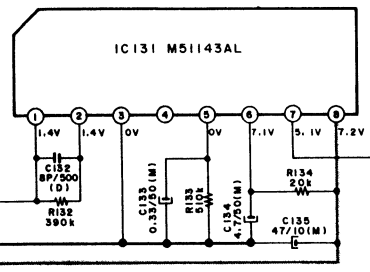
F G H I J K

1 2 3 4 5 6 7 8

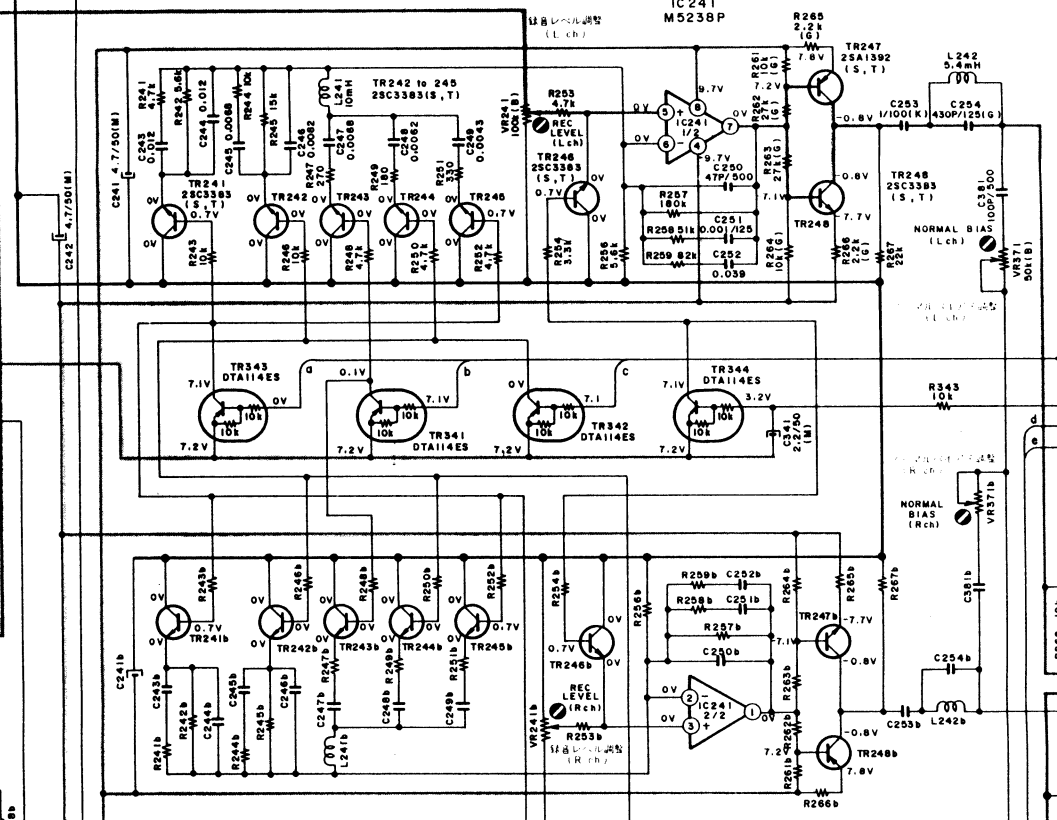
IC131 M51143AL

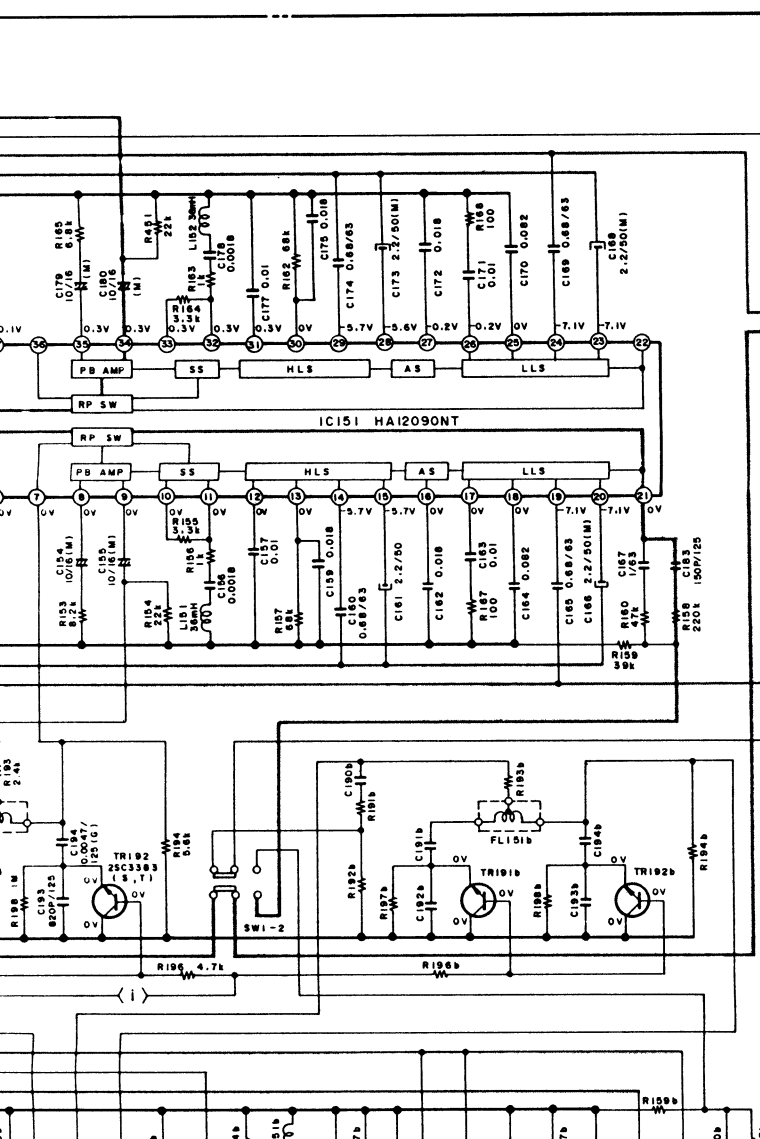



IC131 M51143AL




IC241 M5238P




プリアンプ基板 PRE AMP PCB T2094A501A

- Measured with digital voltmeter in DC range at play mode
- 再生時にデジタルボルトメーターで直流電圧を測定

注意 ⚠の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

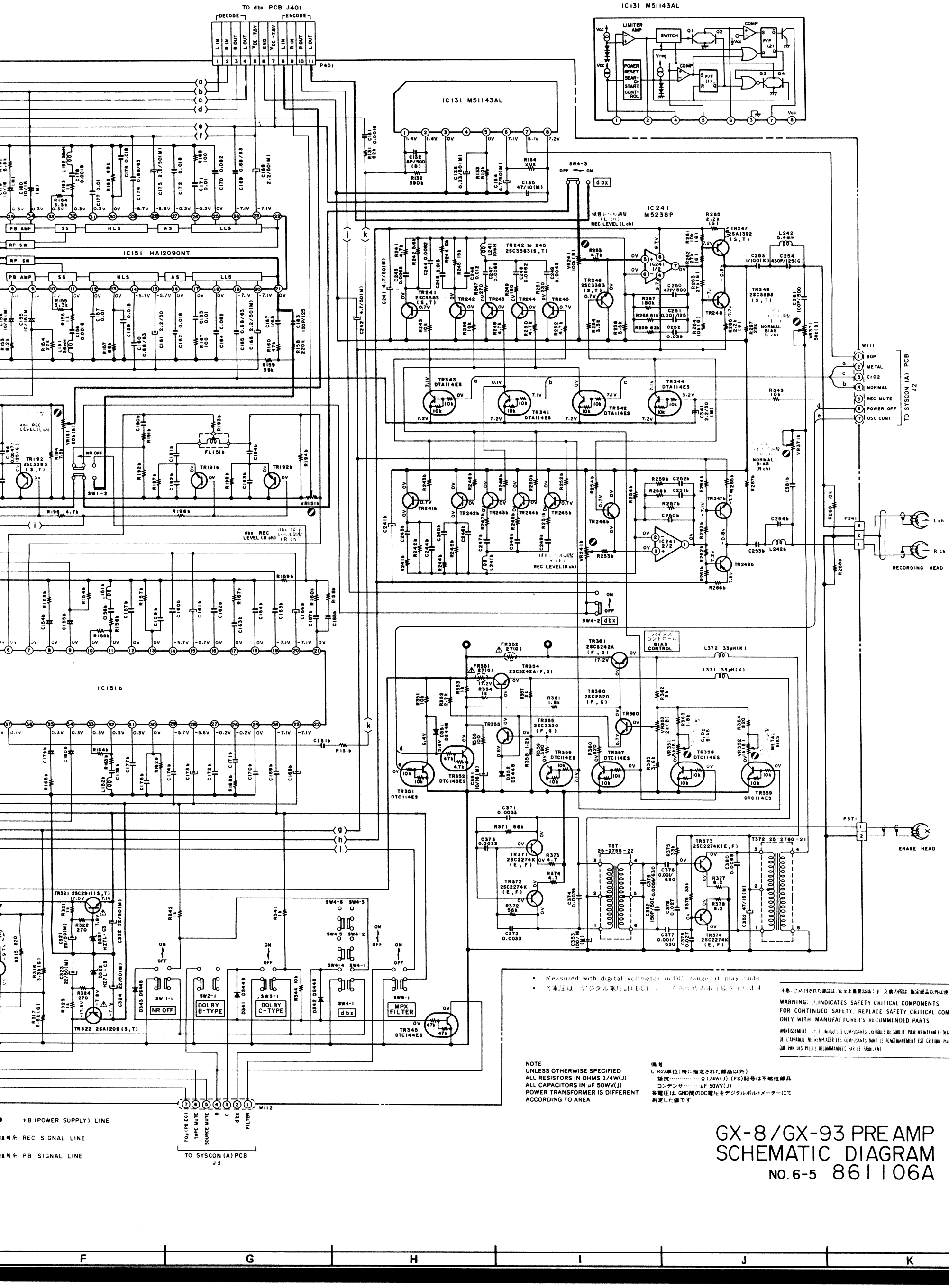
AVERTISSEMENT ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

備考
C,Rの単位(特に指定された部品以外)
抵抗……Ω 1/4W(J)
コンデンサ……μF 50WV(J)

# GX-6/GX-73
# PRE AMP
# SCHEMATIC DIAGRAM
## NO.6-4 861105A

05
TR101 2SC3383(S,T)
PB LEVEL (L ch)
SW4-3 OFF ON
POWER SUPPLY BIAS
PB AMP
SS
HLS
AS
RP SW
IC151 HA12090NT
BC CONT
IC101 M5240P
TR102 DTA114ES
PB LEVEL 10k (Lch)
PB LEVEL 10k (Rch)
VR基板
VR PCB
T2094A501B
11
TR201 2SK170(BL,V)
TR202 2SK170(BL,V)
TR203 DTC144ES
TR204 DTC144ES
TR201b
TR202b
TR203b
TR204b
TR101b
TO SYSCON(A) PCB J4
REC LEVEL CONTROL
LINE OUT
LINE IN
IC121 M5238L
REC BLANCE CONTROL
IC221 M5218L
TR221 2SC2910(S,T)
TR222 2SA1208(S,T)
J,C,A E,V,S,B
パワースイッチ基板
POWER SW PCB
T2094A502E
SW501
T901
J T2094 (J)
C,A T2094 (C,A)
E T2094 (E,V)
B,S T2094 (B,S)
J AC100V 50/60Hz
C,A AC120V 60Hz
E,V AC220V 50Hz
S AC240V 50Hz
ヘッドホン基板
H.P PCB
T2094A501C
12
J221 GX-8 HLJ0540-410
* F1,F2 F3,F4
J 1.25A 125V 1.25A 250V
C,A 1.25A 125V 1.25A 125V
U,E,S,B 630mA T250V 1.25A T250V
VOLTAGE SELECTOR
U/T
AC110 to 240V 50/60Hz
09
パワースイッチ基板
POWER SW PCB
T2094A502E
T901 T2094 (U)
TO SYSCON(A) PCB
PREAMP PCB T2094A501A
プリアンプ基板
METER GND
MOTOR GND
POD
+14V
GND(±14V)
-14V
AC(-24V)
MOTOR +14V
TO SYSCON(A) PCB J1
FL151 428-5162-04
dbx REC LEVEL(Lch)
NR OFF
SW1-2
SW1-1
IC151b
TR311 2SA1208(S,T)
TR312 2SC3383(S,T)
TR313 2SA1392(S,T)
TR314 2SC3383(T,U)
TR321 2SC2911(S,T)
TR322 2SA1209(S,T)
TR301 2SC2910(S,T)
TR302 2SA1392(S,T)
TR303 2SC3383(S,T)
TR304 2SA1392(T,U)
: B電源 +B (POWER SUPPLY) LINE
: 録音信号系 REC SIGNAL LINE
: 再生信号系 PB SIGNAL LINE




* Measured with digital voltmeter in DC range at play mode

* 各電圧は、デジタル電圧計(DCレンジ)で再生時の電圧を測定した値です

注意：△の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

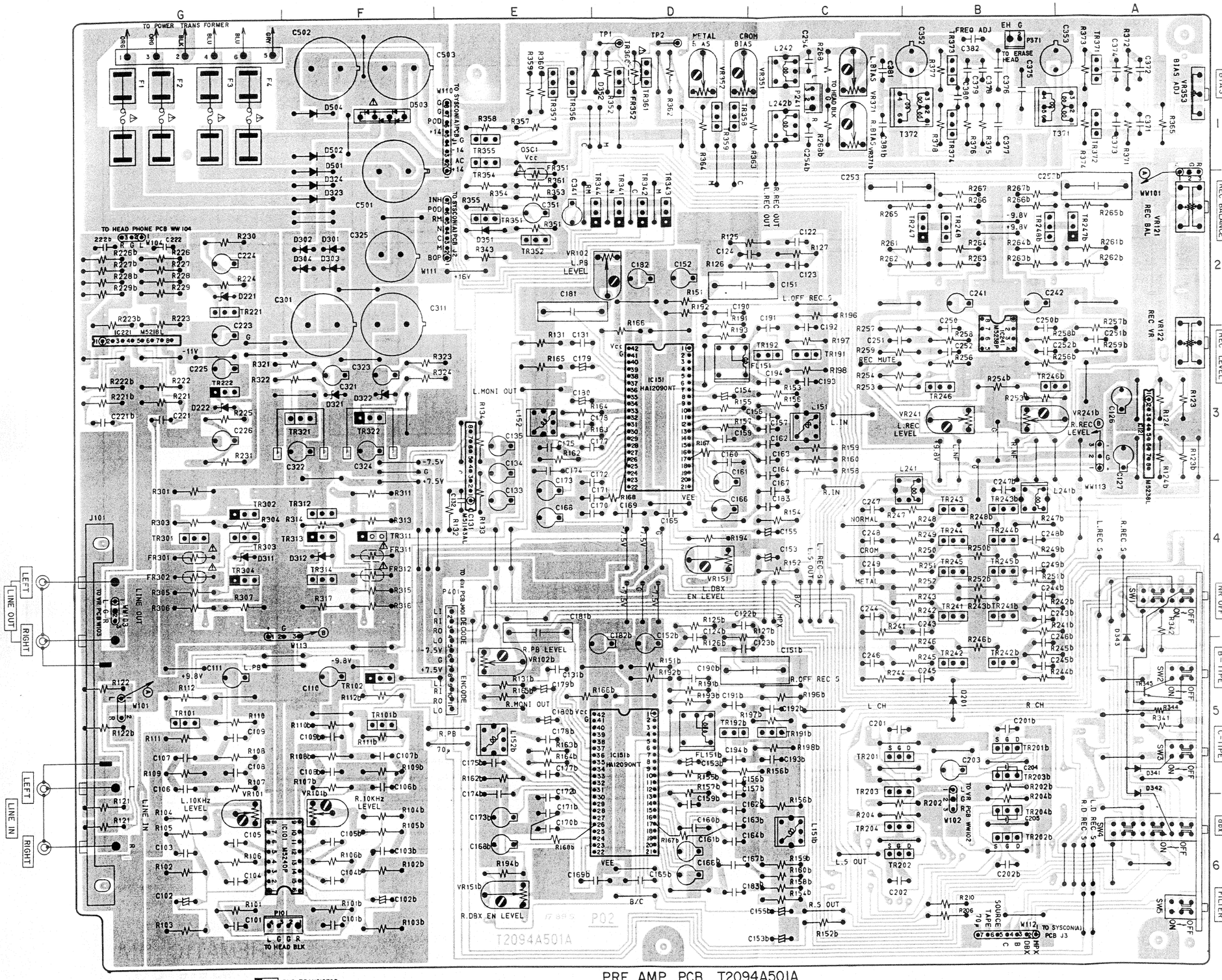
WARNING: △ INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT : △ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

備考
C, Rの単位(特に指定された部品以外)
抵抗……Ω 1/4W(J), (FS)記号は不燃性部品
コンデンサ……μF 50WV(J)
各電圧は、GND間のDC電圧をデジタルボルトメーターにて測定した値です

# GX-8/GX-93 PRE AMP SCHEMATIC DIAGRAM
NO. 6-5 861106A

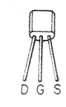



PRE AMP PCB T2094A501A

プリアンプ基板

IC101 ..... F6
IC121 ..... A3
IC131 ..... E3
IC151 ..... D3
IC151b ... D5
IC221 ..... G3
IC241 ..... B3

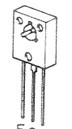
TR101 ... G5
TR101b .. F5
TR102 ... F5
TR191 ... C3
TR191b .. C5
TR192 ... C3
TR192b .. D5
TR201 ... C5
TR201b .. B5
TR202 ... C6
TR202b .. B6
TR203 ... C5
TR203b .. B5
TR204 ... C6
TR204b .. B6
TR221 ... G2
TR222 ... G3
TR241 ... B4
TR241b .. B4
TR242 ... B5
TR242b .. B5
TR243 ... B4
TR243b .. B4
TR244 ... B4
TR244b .. B4
TR245 ... B4
TR245b .. B4
TR246 ... B3
TR246b .. B3
TR247 ... B2
TR247b .. B2
TR248 ... B2
TR248b .. B2
TR301 ... G4
TR302 ... G4
TR303 ... G4
TR304 ... G4
TR311 ... F4
TR312 ... F4
TR313 ... F4
TR314 ... F4
TR321 ... F3
TR322 ... F3
TR341 ... D2
TR342 ... D2
TR343 ... D2
TR344 ... D2
TR345 ... A5
TR351 ... E2
TR352 ... E2
TR354 ... E1
TR355 ... E1
TR356 ... E1
TR357 ... E1
TR358 ... E1
TR359 ... D1
TR360 ... D1
TR361 ... D1
TR371 ... A1
TR372 ... A1
TR373 ... B1
TR374 ... B1




2SK170

DTC144ES
DTC143ES
DTC114ES
DTA114ES

2SC3383
2SA1392
2SC2320
2SC2274




2SC2911
2SA1209

2SC2910
2SA1208
2SC3242

2SC3383 ..... TR101, TR101b, TR303, TR312, TR314, TR191, TR191b, TR192, TR192b, TR248, TR248b, TR247, TR247b, TR245, TR245b, TR244, TR244b, TR243, TR243b, TR242, TR242b, TR241, TR241b.

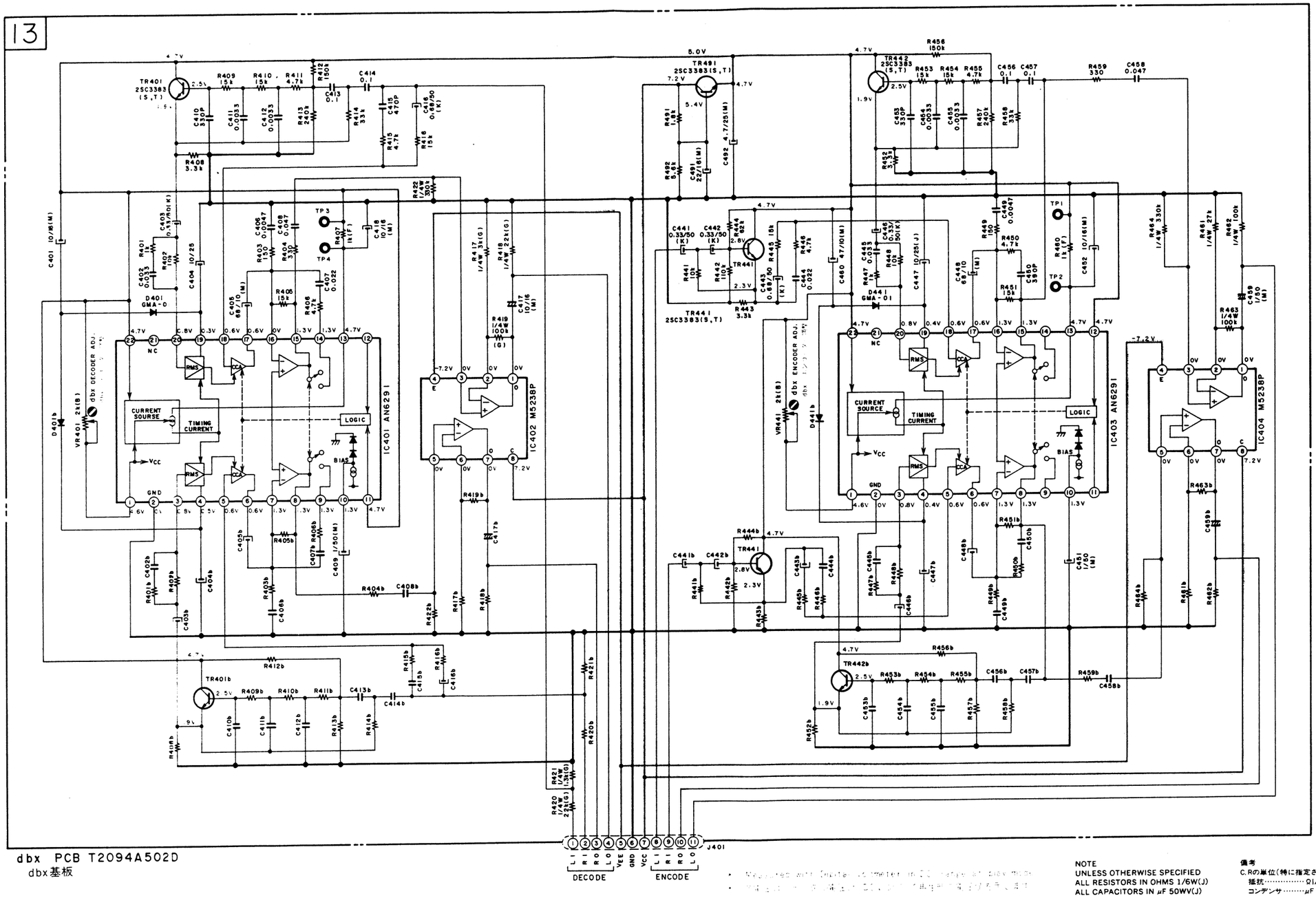
2SC2911 ..... TR321
2SA1209 ..... TR322
2SC2910 ..... TR301, TR221
2SA1392 ..... TR302, TR304, TR313
2SA1208 ..... TR311, TR222
2SC3242 ..... TR354, TR361
2SC2320 ..... TR360, TR355
2SC2274 ..... TR371, TR372, TR373
2SK170 ..... TR201, TR201b, TR202, TR202b
DTC114ES ..... TR351, TR356, TR357, TR358, TR359
DTA114ES ..... TR102, TR341, TR342, TR343, TR344
DTC143ES ..... TR352
DTC144ES ..... TR203, TR203b, TR204, TR204b

注意 △の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

WARNING: △INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT △ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

13




dbx PCB T2094A502D
dbx基板

: B電源 B(POWER SUPPLY) LINE

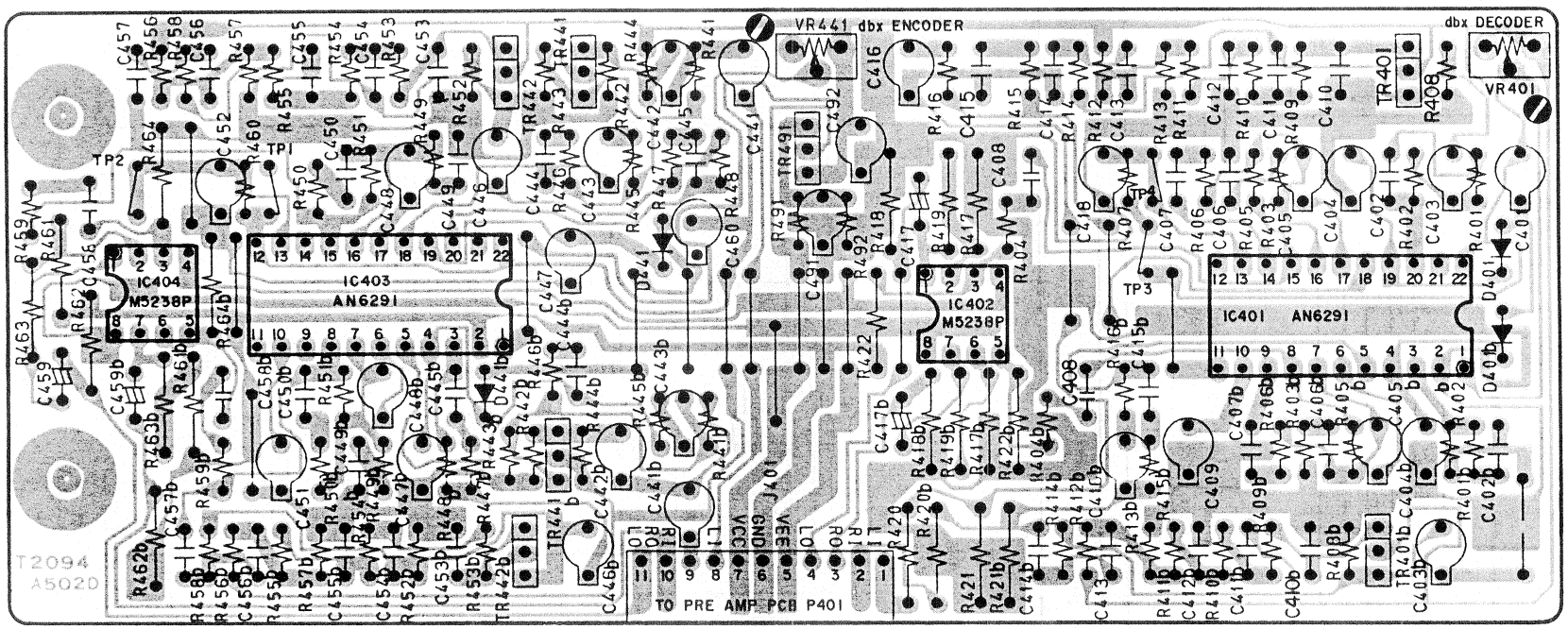
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)

備考
C.Rの単位(特に指定された部品以外)
抵抗……Ω1/6W(J)
コンデンサ……μF 50WV(J)

* GX—93 : ⓙ MODEL ONLY.

# GX-8/GX-93 dbx SCHEMATIC DIAGRAM

NO.6-6 861107A 3




dbx PCB T2094A502D

dbX基板

NPN TRANSISTOR

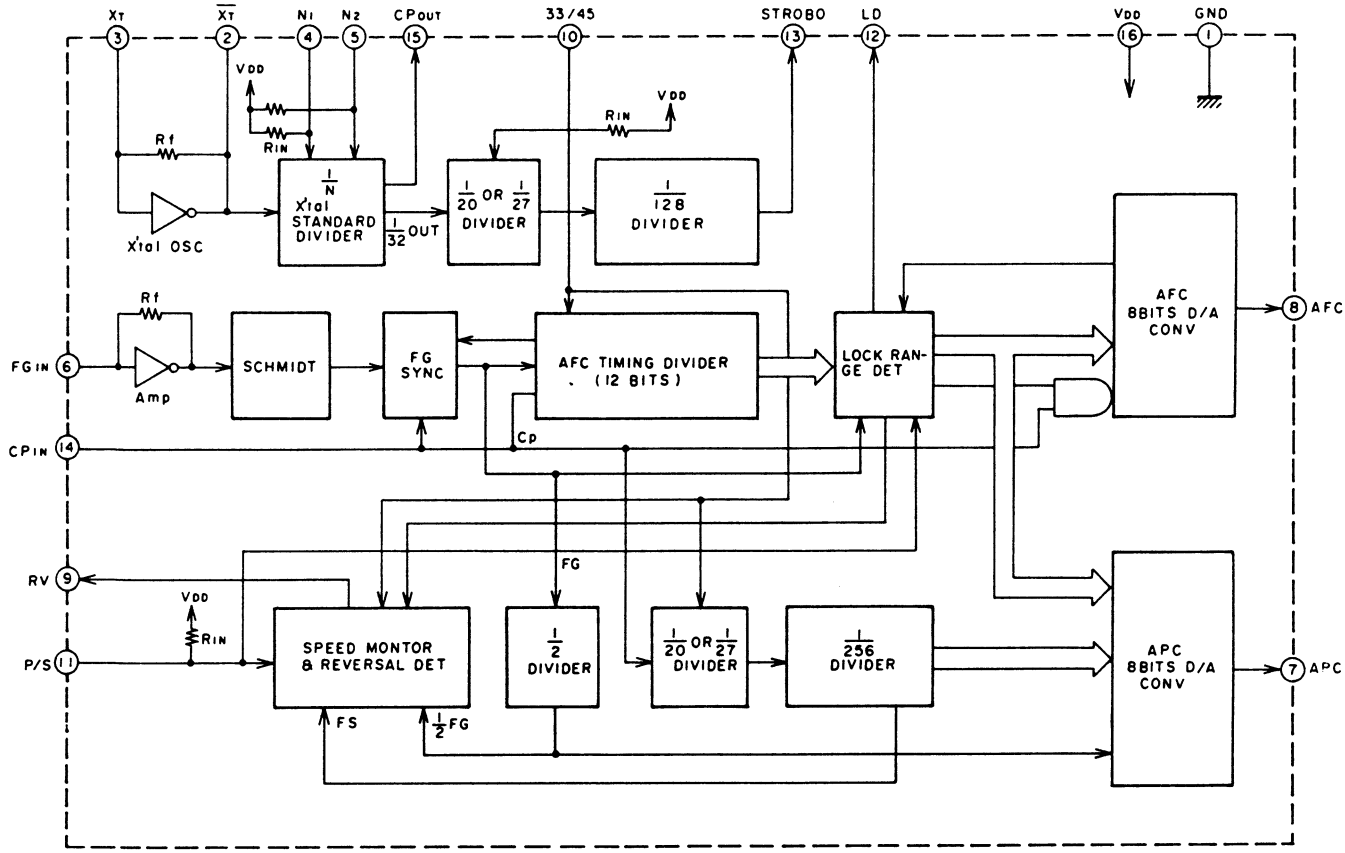
B

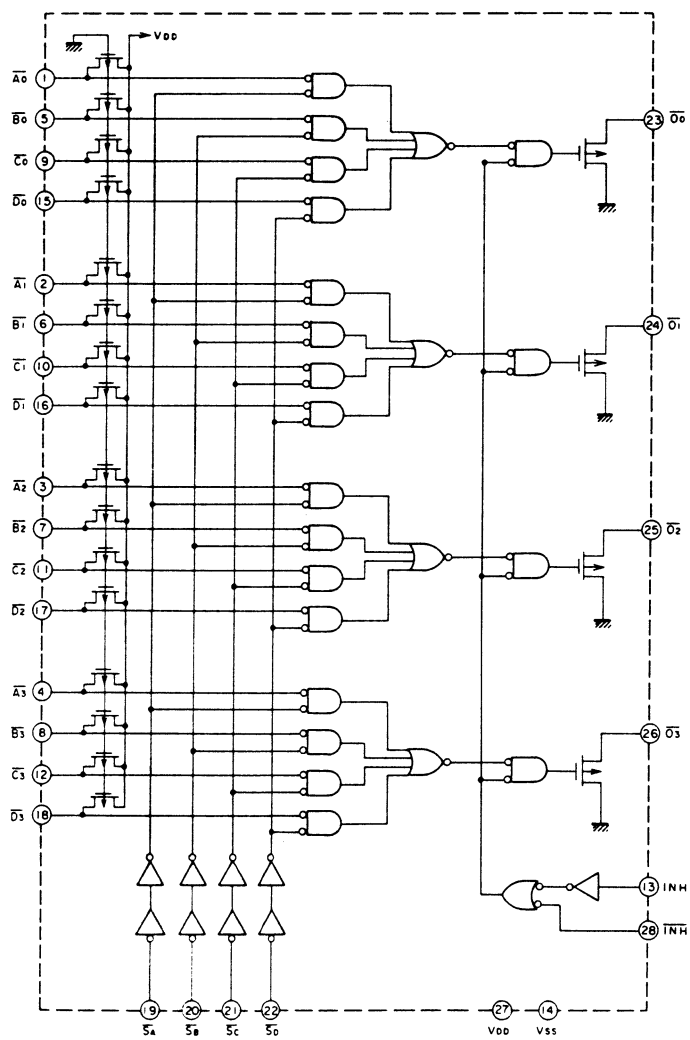
E C B

2SC3383

2SC3383 .....TR401,TR401b,
TR491,TR442,
TR442b,TR441,
TR441b,

## TC9142P




## LC7800